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OFFICIAL REGISTER OF
HARVARD UNIVERSITY
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HARVARD MEDICAL SCHOOL

AND

SCHOOL OF DENTAL MEDICINE

1967–1968

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HARVARD MEDICAL SCHOOL

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BOSTON · MASSACHUSETTS 02115

AND

SCHOOL OF DENTAL MEDICINE

188 LONGWOOD AVENUE
BOSTON · MASSACHUSETTS 02115

1967—1968

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CAMBRIDGE, MASSACHUSETTS

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The Offices of Administration of the Medical School are located in the Administration Building at 25 Shattuck Street, Boston; those of the School of Dental Medicine, at 188 Longwood Avenue, Boston.

The office of the President of the University is located at One Massachusetts Hall, Cambridge.

The Comptroller's Office is in Holyoke Center, Cambridge. It is open on all business days from 9:00 a.m. to 5:00 p.m., except Saturdays, for the receipt of fees, payments, and other financial business.

The Francis A. Countway Library of Medicine

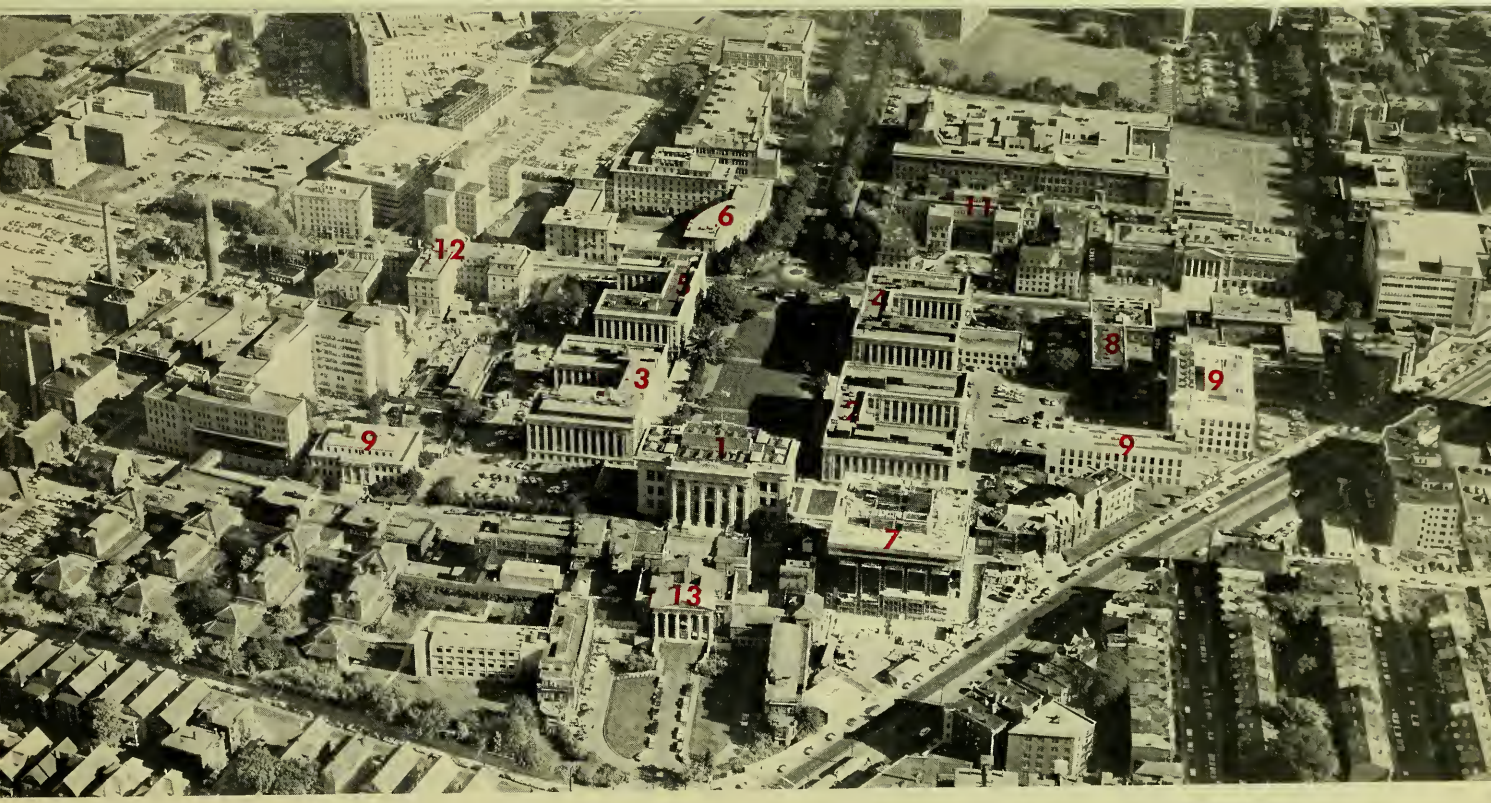

photo by Laurence Lowry

Building A (1), B (2), C (3), D (4), E (5), Vanderbilt Hall (6), Library (7), S.D.M. (8), S.P.H. (9), B.I.H. (10), B.H.W. L-i. Div. (11), C.H.M.C. (12), P.B.B.H. (13)

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HARVARD MEDICAL SCHOOL

Academic Calendar for 1967–1968

Tuesday, July 4, 1967	Independence Day: a holiday.
August 21–September 10	Vacation for the Class of 1968.
Monday, September 4	Labor Day: a holiday.
Friday, September 8	Registration Day for second and third year classes.
Monday, September 11	Academic year begins for second year class. Introduction to the Clinic begins for third year class. Registration Day for fourth year class (Class of 1968). Principal Clinical Year continues for Class of 1968.
Friday, September 15	Registration Day for first year class.
Monday, September 18	Academic year begins for first year class.
Thursday, October 12	Columbus Day: a holiday.
Saturday, November 11	Veterans' Day: a holiday.
Thursday, November 23	Thanksgiving Day: a holiday.
Saturday, December 2	Introduction to the Clinic ends for third year class (Class of 1969). Principal Clinical Year ends for Class of 1968.
Monday, December 4	Principal Clinical Year begins for Class of 1969. Reading Period begins for Class of 1968 (fourth year class).
December 17, 1967–January 1, 1968	Recess for fourth year class.
December 21, 1967–January 3, 1968	Recess for first and second year classes.
Tuesday, January 2	Elective Period begins for fourth year class.
Tuesday, January 16	Second half year begins for second year class.
January 29–February 3	Examination period for first year class.
Monday, February 5	Second half year begins for first year class
Thursday, February 22	Washington's Birthday: a holiday.
February 25–March 3	Recess for the Class of 1969.
Monday, April 1	Last day for filing application for the degree of M.D. in June 1968.

April 14–21	Recess for first and second year classes.
Thursday, May 30	Memorial Day: a holiday.
Friday, May 31	Alumni Day.
Saturday, June 1	Class Day for Class of 1968.
June 3–8	Examination period for second year class.
Saturday, June 8	Second half year ends for first year class.
Thursday, June 13	Commencement.

THE PRESIDENT AND FELLOWS OF HARVARD COLLEGE

This Board is commonly known as the Corporation

President

Nathan Marsh Pusey, A.B., A.M., Ph.D., LL.D., L.H.D., D.LITT., LITT.D.

Fellows

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Francis Hardon Burr, A.B., LL.B.
Albert Lindsay Nickerson, S.B.

Treasurer

George Frederick Bennett, A.B.

Secretary to the Corporation

Sargent Kennedy, A.B., S.M., M.B.A.

THE BOARD OF OVERSEERS *

The President and the Treasurer of the University, *ex officio*, and the following persons by election: —

1968

Thomas Dudley Cabot, A.B., L.H.D., LL.D.
John Langeloth Loeb, S.B.
Augustin Hamilton Parker, Jr., A.B., LL.B.
David Rockefeller, S.B., Ph.D., LL.D.
Gerard Piel, A.B., S.D. (hon.), Litt.D., L.H.D., LL.D.

1969

Edward Livingston Bigelow, A.B.
Francis Taylor Pearsons Plimpton, A.B., LL.B., LL.D.
Henry Jacob Friendly, A.B., LL.B., L.H.D., LL.D.
Francis Sargent Cheever, A.B., M.D., Sc.D. (hon.)
Robert Amory, Jr., A.B., LL.B.

1970

Alfred Hamilton Barr, Jr., A.B., A.M., Ph.D., Litt.D., D.F.A. (hon.), A.F.D. (hon.)
Lammot du Pont Copeland, S.B., LL.D., D.Sc. (hon.), H.H.D.
Thomas Hopkinson Eliot, A.B., LL.B., LL.D.
Donald Frederick Hornig, S.B., Ph.D.
Amory Houghton, Jr., A.B., M.B.A., LL.D.

1971

John Crocker, A.B., B.D., Litt.D., D.D., LL.D.
Jesse Leonard Greenstein, A.B., A.M., Ph.D.
Robert Louis Hoguet, Jr., A.B., M.B.A.
James Henry Rowe, Jr., A.B., LL.B.
Osborn Elliott, A.B.

1972

Richard Ammi Cutter, A.B., LL.B., S.J.D. (hon.)
Henry Chauncey, A.B., S.D. (hon.)
Paul Henry Nitze, A.B., LL.D.
Clarence Douglas Dillon, A.B., LL.D.
Hugh Calkins, A.B., LL.B.

1973

Albert Hamilton Gordon, A.B., M.B.A.
William Appleton Coolidge, A.B., M.A., LL.B.
Gardner Cowles, A.B., LL.D.
Francis Keppel, A.B., LL.D.
George Putnam, A.B., M.B.A.

Secretary of the Board of Overseers

Sargent Kennedy, A.B., S.M., M.B.A. 25 Massachusetts Hall, Cambridge

Assistant Secretary of the Board of Overseers

James Robbins Reynolds, A.B. 28 Massachusetts Hall, Cambridge

*(The term expires, in each case, on Commencement Day of the year indicated.)

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A. Lee Loomis, Jr.
Raymond J. Nagle
Calvin H. Plimpton
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Marshal Stearns
Joseph T. Wearn
Jerome B. Wiesner
Laurence L. Winship

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Assistant to the Dean of the Faculty of Medicine: John Howard Moxley 3d, A.B., M.D.

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Director of Alumni Relations: Langdon Parsons, A.B., M.D.

Director of Medical Information in the University News Office: Herbert Arthur Shaw, A.B.

Director of the Animal Research Center and *Director of the New England Regional Primate Research Center:* Bernard Francis Trum, A.B., D.V.M.

Registrar: Audrey Noreen Koller, A.B.

Librarian: Ralph Theodore Esterquest, S.B., S.B. in L.S., A.M.

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‡* Joseph W. Gardella, S.B., M.D., *Associate Dean of the Faculty of Medicine for Student Affairs* and *Lecturer on Medicine.*

* Perry J. Culver, A.B., M.D., *Associate Dean for Admissions of the Faculty of Medicine* and *Clinical Associate in Medicine.*

* Daniel D. Federman, A.B., M.D., *Assistant Dean of the Faculty of Medicine for Continuing Education* and *Assistant Professor of Medicine at the Massachusetts General Hospital.*

* James J. Feeney, A.B., M.D., *Director of the Medical Area Health Service* and *Member of the Faculty of Medicine.*

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* Sidney S. Lee, S.B., M.D., M.P.H., Dr.Phil., *Associate Dean of the Faculty of Medicine for Hospital Programs.*

* Henry C. Meadow, S.B., *Associate Dean of the Faculty of Medicine for Financial Affairs* and *Executive Secretary to the Committee on Research and Development.*

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William Silen, A.B., M.D., A.M. (hon.), *Professor of Surgery at the Beth Israel Hospital.*

Philip Solomon, S.B., M.D., *Associate Clinical Professor of Psychiatry.*

Ullrich G. Trendelenburg, M.D., Ph.D., M.A. (hon.), *Associate Professor of Pharmacology.*

* *Ex-officio.*
† *Chairman.*
‡ *Secretary.*

HISTORY AND ORGANIZATION OF THE HARVARD MEDICAL SCHOOL.

On September 19, 1782 the President and Fellows of Harvard College adopted a report by President Joseph Willard and former Acting President Edward Wigglesworth embodying a plan for a medical school. This action was followed on November 22, 1782 by the appointment of Dr. John Warren of Boston as the first Professor of Anatomy and Surgery. Shortly thereafter Dr. Benjamin Waterhouse was appointed Professor of the Theory and Practice of Physic. The original faculty was completed in May, 1783, when Dr. Aaron Dexter was named Professor of Chemistry and Materia Medica.

The Harvard Medical School, now nearing the close of its second century of uninterrupted teaching dedicated to the treatment and prevention of the ills of man, was the third medical school to be established in the United States. The first school was organized in 1765 in the College of Philadelphia (now the University of Pennsylvania), the second in 1767 in King's College (now Columbia University).

The first degrees of Bachelor of Medicine awarded by Harvard University were conferred in 1788. Until 1811, the degrees of Bachelor of Medicine and Doctor of Medicine were conferred, the former on graduation from the Medical School, the latter on examination at least seven years after graduation. In 1811 the degree of Doctor of Medicine was granted to graduates of that year and to earlier graduates who had not been admitted to it. All graduates since 1811 have received the degree of Doctor of Medicine.

During its long history, the Medical School has occupied seven different sites. The first classes were held in the basement of Harvard Hall in the Harvard College Yard. Later they were transferred next door to Holden Chapel, a building which was

originally the College Chapel but through the years has served as a carpenter shop, a chemistry laboratory, a museum, and is now the home of the Harvard Glee Club. To be close to such hospital facilities as might be developed in Boston, the Medical School, in 1810, was moved out of the Yard to quarters at 49 Marlborough Street (now 400 Washington Street) in Boston. Six years later, the Medical School occupied the first structure built especially for its use, located on Mason Street in Boston. At this time, and for a period of 42 years thereafter, the School bore the title of "The Massachusetts Medical College of Harvard University."

In 1847, new quarters were established on North Grove Street opposite the Massachusetts General Hospital and here the School remained until 1883, when the move was made to 688 Boylston Street and a building that was expected to be the "home of medicine for generations." The School's vigorous growth soon made these quarters inadequate. Accordingly, the five marble buildings that today form the Longwood Avenue Quadrangle were erected. At their dedication on September 25, 1906, Dr. Charles W. Eliot, President of the University, in his acceptance address, described them as: "The largest single addition to the resources of the University which has ever been placed in the hands of the Corporation since it received its charter in 1650."

These buildings were built on 11 acres of an original 26 acre tract, the remaining 15 acres being reserved for the hospital facilities that, it was expected, would be built around the School. Four hospitals and the Harvard Schools of Dental Medicine and Public Health are now located in this general area.

Prior to 1906 most clinical teaching was carried on in the Massachusetts General and Boston City Hospitals. Opportunities for clinical teaching and investigation have increased greatly since the Longwood Quadrangle was established, through the new hospitals surrounding the School and affiliated with it.

BUILDINGS

The Administrative Building (A), with 65,000 square feet of floor space, contains the Faculty Room, the Administrative Offices of the Medical School, the Alumni Office, the Courses for Graduates Office, the Warren Anatomical Museum, the News Office for the Medical Area, and the teaching laboratories for Histology and Neuroanatomy.

The laboratory buildings, designated by the letters B, C, D, and E, were all constructed on the same general plan — two parallel wings united at the front by an amphitheatre with a seating capacity of two hundred and fifty. To keep pace with present day requirements, the original facilities are continually being adapted, remodeled and even rebuilt while preserving the outside walls. In Building B, added research laboratories and teaching facilities have replaced the amphitheatre. Both the smaller rooms and the laboratories are designed on a unit system which greatly simplifies changes required in suiting these rooms to the future needs of departments. The amount of floor space varies considerably in each of the four buildings.

Building B accommodates the Departments of Anatomy, Neurobiology and Pharmacology. In this building each wing has five floors and a total floor space of 132,000 square feet.

Building C provides space for the Departments of Biological Chemistry and Physiology, and the Office of the Division of Medical Sciences. In this building there are four floors in one wing and five floors in the other. The building has a total floor space of 115,000 square feet.

Building D is occupied by the Departments of Bacteriology, Pathology, Preventive Medicine, the Division of Medical Sciences, Laboratory, the Biophysics Laboratory, and laboratories of the Department of Medicine. In this building each wing has five floors, with a total of floor space of 109,000 square feet.

Building E houses the Department of Tropical Public Health of the School of Public Health and teaching facilities for Gross Anatomy. A new addition provides quarters for Surgical Re-

search. There are three floors in one wing and four floors in the other, with a floor space of 68,000 square feet.

Vanderbilt Hall, the student dormitory, was opened in 1927.

The Francis A. Countway Library of Medicine described on page 18 was opened in 1965.

SCHOOL OF DENTAL MEDICINE

Founded in 1867, the Harvard School of Dental Medicine was the first university affiliated school for dentistry in the United States. The School, a responsibility of the Faculty of Medicine since 1899, offers a four year course that leads to the degree of Doctor of Dental Medicine.

During the first two academic years the courses of instruction are nearly identical with those of the Medical School. The third and fourth years are under the direct supervision of the staff of the School of Dental Medicine. The recipient of the degree of D.M.D. from the School of Dental Medicine is well prepared to meet State Board requirements for license to practice dentistry. Graduates are also ready for the advanced study and experience recommended for any of the specialties of dentistry.

Access to the research laboratories of the School in the elective time during the third and fourth years permits unusual training for those having dental research in mind as a career.

The requirements for admission parallel those of the Medical School, except that the Dental Aptitude Test is required in place of the Medical College Admission Test. Qualified students and graduates of approved medical schools who wish to specialize in dentistry may be admitted to the School of Dental Medicine with advanced standing.

A brief description of the program of the School of Dental Medicine can be found on page 316. Full details are available in the Dental School's catalogue.

LIBRARIES

The Francis A. Countway Library of Medicine, opened its doors to readers in June 1965. Located at the Medical School, it combines the resources and services of the Harvard Medical Library and the Boston Medical Library. Among libraries serving medical schools, it is among the largest in the country. Its recorded holdings number 418,000 volumes, and it receives 4,800 different periodicals. The Countway Library is open:

8:00 a.m. to 11:30 p.m. weekdays
9:00 a.m. to 5:00 p.m. Saturdays
2:00 p.m. to 11:30 p.m. Sundays

In addition to its holdings of current books and periodicals, the Countway Library has extensive collections of historical materials, dating from the 15th Century. Its History of Medicine Department provides modern facilities for the use of these books and other rarities.

For the convenience of the several departments of the School, collections of books and journals are maintained in a number of other buildings. Among the more important convenience collections are:

Anatomy Library (Building B, 3d floor)
Bowditch Library of Physiology and Biochemistry (Building C, 3d floor)
Library of Dental Medicine (188 Longwood Avenue)
Lucien Howe Library of Ophthalmology (at the Massachusetts Eye and Ear Infirmary)

All members of the University may borrow from the College Library at Cambridge. Messenger service is provided daily from the College Library and various other University Libraries.

The Boston Public Library issues cards to permanent and to temporary residents of Boston. Others may obtain cards upon payment of a small fee. Other libraries of the Boston area, notably those of the Massachusetts Institute of Technology, add to the total book and periodical resources available to students.

The librarian is Ralph T. Esterquest, and Earle M. Chapman is chairman of the Library Committee of the Faculty.

WARREN ANATOMICAL MUSEUM

The Warren Anatomical Museum was founded in 1847 by John Collins Warren, of the College Class of 1797, Adjunct Professor of Anatomy and Surgery from 1809 to 1815, Hersey Professor of Anatomy and Surgery from 1815 to 1847, Professor *Emeritus* from 1847 to his death in 1856, son of John Warren, the first Hersey Professor of Anatomy and Surgery.

The Curator of the Museum is Dr. Don W. Fawcett, Hersey Professor of Anatomy.

The collection comprises several thousand specimens illustrating both normal and pathological anatomy. These include dissections, skeletons, viscera, and the Dwight Collection illustrating skeletal variations and cross sections of bones. There is a growing number of gross neuropathological specimens and an extensive series of total brain sections prepared under the direction of the former Curator, Dr. Paul I. Yakovlev. These are available for study by qualified graduate students upon application to the Department of Neuropathology.

Also housed in the Museum are the records of the Longitudinal Studies of Child Health and Development conducted between 1929 and 1960 by Dr. Harold C. Stuart, Professor *Emeritus* of Maternal and Child Health at the Harvard School of Public Health. These records pertain to 134 children followed from birth to their eighteenth year and 175 other children followed from birth for shorter periods. The data include health histories, radiographs of skeletal development, body measurements, measurements of intelligence and observations on the family and home environment. Permission to use these records for research purposes may be obtained through the Department of Maternal and Child Health, Harvard School of Public Health.

HOSPITAL FACILITIES

Beth Israel Hospital

Founded in 1916 "to give medical and surgical aid and care, dispensary and outpatient service to the sick and disabled of any race, creed or color, and to carry on such educational, philanthropic and scientific activities and functions as are a part of efficient modern hospital service," this general hospital contains 368 beds and 62 bassinets, all used for teaching. Among the major teaching hospitals of Harvard Medical School, it offers a wide range of services, broadly categorized under medicine, surgery, anaesthesia, obstetrics-gynecology, pathology, pediatrics, psychiatry and radiology, each under the direction of full-time Faculty Members. There are many well equipped laboratories for clinical investigation and basic research, modern seminar and lecture rooms, and a convenient medical library, all available to students in the Medical School. In 1967, approximately 15,000 inpatient admissions and 2,850 deliveries accounted for 130,000 patient days of hospital care. Interest in community medicine is manifest through an Outpatient Department (64,400 annual visits), Emergency Ward (22,400 annual visits), Home Care Program (10,400 annual patient days), and Child Care Program oriented toward 400 families in Roxbury and elsewhere. There is also a close relationship with the Hebrew Rehabilitation Center for Aged, where the medical problems of over 500 elderly citizens fall within the purview of Beth Israel Hospital.

Boston City Hospital

This hospital with all its divisions contains 1,132 beds, including 85 bassinets for newborn and 200 beds for infants and children. Over 300 are available to the teaching units of the Medical School. The Second and Fourth Medical Services, the Fifth Surgical Service, the Neurological and Neurosurgical Services are under the direction of Professors of the Harvard Medical School, and in addition there are other specialties open to students. In the Out-

patient Department and Accident Floor there were 456,116 patient visits during the year 1966. In addition there are 359 beds at Mattapan Chronic Disease Hospital — 165 of these are for general chronic care and 194 are for tuberculer patients. Long Island Chronic Disease Hospital also has 604 beds.

The Thorndike Memorial Laboratory, established in 1923 for medical research, includes a metabolism ward and is an integral part of the Harvard Medical Unit. It is an internationally known center of medical investigation in the treatment of blood disorders, infectious diseases and disorders of the liver, kidney, thyroid and heart. The Sears Surgical Laboratory, established in 1955 as part of the Harvard Surgical Unit, is associated with the Fifth Surgical Service under the direction of the Professor of Surgery who is Head of that Service. It provides a modern amphitheatre, conference rooms, animal quarters, library, and laboratories for surgical research. The Departments of Neurology and of Pathology also maintain active research laboratories. In addition there are well-equipped service laboratories for pathology, chemistry, metabolism, and immunology. Four amphitheatres and various conference rooms are used in student instruction. The hospital maintains an admirable general working library and two special libraries.

Boston Hospital for Women

The Boston Hospital for Women was formed in 1966 by merger of the two Harvard-affiliated hospitals specializing in the care of women. These were the Boston Lying-in Hospital and the Free Hospital for Women which have been re-named the Lying-in Division and the Parkway Division.

The Lying-in Division, located at 221 Longwood Avenue, has 174 beds. Approximately one-third are on the ward service and an increasing number of private beds are also available for teaching. Although this Division is primarily obstetrical, a certain amount of surgical gynecology is also performed here. There are chemistry, pathology, bacteriology and blood bank laboratories

and an x-ray department. A new wing attached to the hospital is completely devoted to research laboratories.

The Parkway Division, located at 245 Pond Avenue, Brookline, is devoted exclusively to the care of women with gynecological conditions. The hospital has 90 beds, 32 of them on wards, but almost all available for teaching. In addition to standard laboratory facilities and a library, the hospital houses the Cytology Laboratory for the Women's Hospital and has laboratories oriented toward research in reproduction and neoplasia.

Children's Hospital Medical Center

This is an affiliation of ten voluntary institutions concerned with the care of children, with teaching, with research, and with child health. Included are the following:

The Children's Hospital

This hospital has been located on Longwood Avenue adjacent to the Medical School since 1914. It is a general hospital for the care of children from infancy through adolescence. Pediatric, surgical, neurosurgical, neurological, orthopedic, dental, radiologic, psychiatric, pathologic, and otolaryngologic services with their associated specialties are maintained. Special clinical facilities are provided for adolescents. There are 343 beds, with an average daily census in 1967 of 305 patients. During the year ending September 30, 1967, it rendered 111,404 days of care to 11,412 inpatient admissions. (These figures are inclusive of The Children's Hospital, Infants' Hospital, Sharon Sanatorium, The House of the Good Samaritan, and the Judge Baker Guidance Center.) In addition, there were 154,697 visits to 53 outpatient clinics. Full laboratory and diagnostic services are provided for the study of material from the house and outpatient services.

The Sharon Sanatorium

This organization sponsors the Sharon Cardiovascular Unit composed of 28 beds devoted to the care of non-rheumatic cardio-

vascular disorders including congenital heart disease. It is included in The Children's Hospital as described above.

The Infants' Hospital

Established as a memorial to Thomas Morgan Rotch, Jr., the Infants' Hospital operated in close conjunction with The Children's Hospital from 1923 to 1961, at which time there was a complete merger. There are 29 beds which are devoted to the care of infants in addition to a separate neonatal nursery accommodating 12 infants under the age of one month, including prematures.

The House of the Good Samaritan and
The Hospital and Convalescent Home for Children

The House of the Good Samaritan is situated at 25 Binney Street adjacent to the Medical School. There are 37 beds devoted to the care of long-term and convalescent patients and to the study of rheumatic fever and rheumatic heart disease.

In February, 1959, the renovated Good Samaritan building was reoccupied and became a long-term and convalescent care facility of The Children's Hospital. The Hospital and Convalescent Home for Children in Wellesley Hills was closed about the same time and its activities transferred to the Good Samaritan. In 1967 there was a complete merger of the House of the Good Samaritan with the Children's. The House of the Good Samaritan unit continues to provide 37 beds including 15 beds for respirator cases or patients requiring long-term orthopedic care. The study and treatment of rheumatic diseases continues. Out-patient clinics are held regularly as a part of this research program. The building also houses the endocrine laboratories of The Children's Hospital.

The Children's Mission to Children

A social service agency providing counseling service to parents whose children have medical and emotional problems. Also available is a foster home and a group home program for children who cannot remain at home.

The Children's Cancer Research Foundation

An affiliate of The Children's Hospital Medical Center, the Foundation conducts programs of diagnosis, treatment, and clinical investigation of leukemia and other forms of cancer in children, and of cancer research housed in two buildings, the larger of which is the Jimmy Fund Building. Ten floors of laboratories are devoted to both basic medical research and to more specific programs of cancer research concerned with prevention, eradication, and cure of disseminated cancer, with greatest emphasis on cancer chemotherapy.

The Judge Baker Guidance Center

A child psychiatry clinic whose treatment, training, and research programs are affiliated with those of the Department of Psychiatry of The Children's Hospital Medical Center. The in-patient service has 26 beds. This unit has constructed a building in close proximity to The Children's Hospital, expanding and integrating the program in psychiatry.

McLean Hospital

A hospital for patients with all types of psychiatric disorders, situated in Belmont and a division of the Massachusetts General Hospital. In addition to the inpatient service it offers day care, night care, and outpatient treatment programs. One fifth of the patients are adolescents and the hospital operates a high school on its grounds. McLean Hospital was the first mental hospital in New England and is the third oldest mental hospital in the United States. It has a complement of 254 beds, with approved capacity of 278 beds, and is a teaching hospital connected with the Harvard Medical School. During the past fiscal year 311 patients were admitted to the hospital and 299 patients were discharged. It maintains laboratories for research in social psychiatry, social psychology, clinical psychology, clinical physiology, neurophysiology, neurochemistry, and neuropathology.

Massachusetts Eye and Ear Infirmary

The Infirmary, incorporated in 1827, and associated with the Harvard Medical School since 1866, is a voluntary specialty hospital engaged in patient care, research and teaching in the fields of Ophthalmology and Otolaryngology. The Chiefs of the two clinical services are appointed jointly by the Infirmary and the Medical School, where they hold full professorships.

Many members of the Medical Staff also serve on the Faculty and give instruction to the medical students both at the School and at the Infirmary itself where most of the 180 beds are available for teaching. There is a high occupancy of about eighty seven per cent and a short average patient stay of approximately five and one half days. In the fiscal year 1967, 11,047 operations were performed on 11,012 patients admitted to the hospital.

Although the Infirmary and its neighbor, the Massachusetts General Hospital, are separate and independent institutions, they join together in the operation of ambulatory clinics. In 1967, the Eye and Ear, Nose and Throat clinics together recorded 74,573 patient visits.

Eye research at the Infirmary is conducted in the Howe Laboratory of Ophthalmology which, though a department of the Medical School, has been housed at the Infirmary since 1932. In otolaryngological research, the best known laboratory is the Eaton-Peabody Laboratory of Auditory Physiology, a joint venture of the Infirmary and Massachusetts Institute of Technology in which the Harvard Medical School has recently become a participant.

Massachusetts General Hospital

This general hospital, founded in 1811, in great part owes its existence to the foresight and ambition of two members of the faculty of the Harvard Medical School, Dr. James Jackson and Dr. John Collins Warren, son of Dr. John Warren, the first Professor of Anatomy and Surgery at the Medical School.

In a circular letter addressed (August, 1810) "to the most influential and wealthy citizens of Boston," Drs. Warren and Jackson noted the benefits that would accrue to the ill of the community through establishment of a hospital, and to the collateral advantages that would follow. Among the latter, "are the facilities for acquiring knowledge which it (the hospital) would give to the students in the medical school (Harvard) established in this town."

The Hospital opened its doors in 1821 with Dr. Warren as Surgeon-in-Chief and Dr. Jackson as Physician-in-Chief. The close and salutary relationship established at the outset between the Medical School and the Hospital has continued to the present.

In the Hospital there are services in medicine, surgery, pediatrics, dermatology, genito-urinary diseases, orthopedics, gynecology, neurology, neurosurgery, anaesthesia, dental medicine, physical medicine, and psychiatry, all of which are used in giving instruction in these special departments of medicine. The Hospital has 1,060 beds, all of which are available for teaching purposes. Over 30,000 patients were admitted to the Hospital in 1966–1967. Large clinics are also used for instruction in the above clinical subjects. Clinic visits numbered 226,206 last year, of which 14,504 were first visits of new patients. There were 62,541 patients treated in the emergency ward. Laboratories for pathology, bacteriology, chemistry, metabolism, medical and surgical research, and radiology are maintained, and there is an excellent medical library, all of which are open to students in the Medical School.

In 1942 arrangements were made with the Vincent Memorial Hospital and the Hall Mercer Hospital to care for their patients in the Massachusetts General Hospital. The Vincent occupies the three lower floors of the Vincent-Burnham Building, with the three floors above comprising the Burnham Memorial for Children.

In 1943 the Collis P. Huntington Memorial Hospital and its associated laboratories of the Harvard Cancer Commission were transferred from their former location adjacent to the Medical School to the buildings of the Massachusetts General Hospital.

Massachusetts Mental Health Center
(formerly the Boston Psychopathic Hospital)

This is a state institution for acute, curable, incipient, and doubtful cases of mental disease. The Massachusetts Mental Health Center also serves as the comprehensive mental health center for a population area of 220,000 persons in Greater Boston. The hospital was opened to patients in June, 1912 as a department of the Boston State Hospital. It became a separate institution in 1920. It has 200 beds, of which 14 are available for children. All of the beds are available for teaching and receive patients at the rate of about 900 a year. The hospital is equipped with psychological, clinical, biochemical, and research laboratories. The out-patient department is made up of an adult and child division and receives more than 4,000 new patients per year — total patient visits number more than 45,000. In addition to the psychoses and neuroses, the clinical material includes cases of maladjustment, personality problems, behavior disorders of childhood and mental defect.

New England Deaconess Hospital

This is a 360 bed specialty hospital located one block from the Harvard Medical School. The physical plant includes the Palmer Memorial, George F. Baker, Central, and Deaconess Buildings as well as the ambulatory Joslin diabetic unit, the Norwich House for short-term psychiatric therapy, the Cancer Research Institute, the medical office building for independent staff, and the Shields Warren Radiation Laboratory. The latter unit, constructed by the Deaconess Hospital, is operated jointly by the Deaconess, Beth Israel, and Children's Hospitals to provide facilities for the new Alvan T. Fuller Chair of Experimental Radiation of the Harvard Medical School. The Departments of Pathology and Radiology provide diagnostic and treatment facilities for all patients within the above named units as well as patients referred from the Joslin, Lahey, and Overholt Thoracic Clinics. The

hospital is known for therapy in Cancer, Diabetes, Hematology, General Medicine, and all types of Surgery. It has an active postgraduate teaching program including four year specialization in Medicine, Surgery and Pathology and two years in Anesthesiology, Radiology, and Thoracic Surgery. Surgical Residents are affiliated with the Fifth Surgical Service (Harvard Division) of Boston City Hospital. Undergraduate teaching primarily involves fourth year elective courses but also includes a number of third year students who rotate to the hospital for a part of their "Introduction to the Clinic." Active research programs within the hospital are carried out under the direction of the Cancer Research Institute, the Diabetes Foundation, the Lahey Clinic Foundation, and the Blood Research Institute (formerly Protein Foundation).

Peter Bent Brigham Hospital

Since its dedication in 1913, the hospital has been closely associated with the Medical School. The hospital, equipped for teaching and research in physical diagnosis, medicine, surgery, radiology, and pathology is situated on grounds adjacent to the Medical School buildings. The Chiefs of Service are Professors of the Faculty of the Medical School. There are 321 beds, all of which are used for teaching purposes. During the past year, 8,016 patients were admitted. There are also a clinic and an emergency service. The total number of visits to these facilities last year was 73,878. There are well-equipped medical, surgical, and pathological laboratories. The hospital has a School of Nursing and the oldest program in the country for dietetic interns.

Veterans Administration Hospital (West Roxbury)

This is a 300 bed hospital for the care of general medical and surgical patients, incorporating a center for the care of patients with spinal cord injuries. It is also a center for cardiovascular surgery. All the beds are available for teaching; there were 2,577 admissions during 1967.

The hospital is administered by the Veterans Administration but is professionally closely associated with the Peter Bent Brigham Hospital (8 miles distant), with which it is affiliated for the training of residents. It has complete laboratory and X-ray facilities, a research laboratory, and its own library.

Other hospitals in the Greater Boston area in which some teaching activities are carried on include: Cambridge City Hospital; Lemuel Shattuck Hospital; Metropolitan State Hospital; Middlesex County Sanatorium; Mt. Auburn Hospital; and the Robert B. Brigham Hospital.

HARVARD MEDICAL CENTER

A corporation known as the Harvard Medical Center was formed in 1956 by the Harvard Medical School and seven of its teaching hospitals ". . . to improve and advance the knowledge, practice and teaching of medicine . . . ; to assist in the advancement of medical research and investigation and the improvement of medical teaching facilities. . ."

The Center's Board of Trustees is made up of the Dean of the Faculty of Medicine, who serves as President, and a representative from each of the participating institutions, which are:

Harvard Medical School
Beth Israel Hospital
Boston Hospital for Women
  Lying-in Division
  Parkway Division
Children's Hospital
Massachusetts Eye and Ear Infirmary
Massachusetts General Hospital — McLean Hospital
Peter Bent Brigham Hospital

Harvard is exceedingly fortunate in having both privately endowed and tax-supported teaching hospitals associated with the Medical School through joint faculty appointments, joint teach-

ing responsibilities and joint research undertakings to foster maximally the correlation of teaching, research and patient care.

Tax-supported hospitals cannot legally be part of the Harvard Medical Center and it is for this reason that such important teaching hospitals as the Boston City Hospital, the Massachusetts Mental Health Center (formerly the Boston Psychopathic Hospital), and the West Roxbury Veterans Administration Hospital are not member institutions.

REQUIREMENTS FOR ADMISSION

In general, the Faculty of Medicine considers for admission those students who are in good standing in either arts or sciences and also graduates of colleges that are listed as approved in the "Higher Education Directory," which is published by the Office of Education of the United States Department of Health, Education and Welfare. Academic work in foreign universities must be supplemented by two years of study at an approved university in the United States. Candidates for admission to the first year class must not only have met the minimum requirements but they must present evidence that their academic achievement and other credentials have been of such quality as to predict a high degree of success in the graduate study of medicine. These include, among other things, the Medical College Admission Test scores, extracurricular and summer activities, comments contained in letters of recommendation and the personal qualifications of the applicant. The selection of students is based on a total and comparative appraisal of the candidate's suitability for medicine. The student planning to embark upon a career in medicine would be well advised, therefore, to strive not for grades nor for a vocational training but for a good liberal education. He should seek to develop his intellectual, cultural and personal growth.

Tomorrow's physician must be accomplished in the science of medicine and skilled in the art of the practitioner, concerned with the social and environmental problems of people and a leader in civic and community affairs. He needs to have a broad education

encompassing in some depth the natural sciences, the behavioral sciences, the arts and the humanities. Although he is expected to have a scholarly approach to one or more of these areas, narrow specialization with all of his educational effort being directed to one area is undesirable. Secondary school, college and medical school should become a continuum because of an ever improving quality of education at all levels.

The following are the minimal requirements (but not necessarily optimal):

English: Basic skill in the English language, including proficiency in grammar and spelling, is necessary to achieve facility for clear expression in both the written and spoken medium. It is expected that the student will have at least four years of study of English composition and literature, at least one of these years being at the college level.

Foreign Language: The student is expected to have competence in a foreign language, not merely to increase ability to read more extensively in the medical literature, but to increase understanding of language itself and the help this provides in developing the art of communication. Either a modern or a classical language will meet this requirement, which presupposes the equivalent of at least two years of study at the college level. If an applicant has fulfilled the language requirement for a Bachelor's degree by obtaining a sufficiently high score on the College Board examination or by passing a college language placement test, he will be considered to have met the language requirement for admission to the Harvard Medical School. In such cases, however, an advanced course in the same foreign language is strongly recommended.

Mathematics: Mathematics, the language of science, is a basic tool for the successful study of medicine. At least one full year of calculus in either secondary school or college is a requirement. College algebra and similar college introductory courses will not suffice.

These basic skills in language and mathematics, which can be acquired in secondary school or in college, should be pursued in the former to the extent that an opportunity is available.

Chemistry: At least two full courses in chemistry in college are required. It is expected that there will be a minimum of one full course in both inorganic and organic chemistry. Adequate time in the laboratory, including familiarity with quantitative techniques, is important in this experience. If the student has advanced placement credit for introductory chemistry, it is recommended that a course in physical chemistry would best provide for the minimum requirement in inorganic chemistry and will be of considerable benefit to the study of biochemistry in medical school. In many states advanced placement courses may not be accepted for licensure.

Biology: A student must have taken at least one full course of biology in college. His total biology experience (secondary school and college) should have emphasized structure, function, natural history and evolution of plants and animals. There should also have been an introduction to molecular biology. Laboratory experience in these courses is essential.

Physics: One full course of physics in college must be offered. If a student has advanced placement credit for secondary school physics, he should take a full year's work in one or more areas of advanced physics.

Recommended Courses: As mentioned above, physical chemistry will provide an additional background for the study of biochemistry. Comparative anatomy, genetics and embryology may be of help during the first two years of medical school.

Psychology and behavioral sciences have value for increasing the understanding of man. Such courses, however, cannot be considered as a substitute for gaining first hand knowledge of human activity through the study of literature, history, art and religion.

The undergraduate curriculum should contain both balance and depth. In general, approximately one half of the courses should be devoted to the study of humanities and at least one fourth to science.

Depth of knowledge and scholarly experience should be gained by selecting the field of major study which is of greatest interest to the student. The goal of a liberal education is an end in itself and should not be considered merely as preparation for a graduate school.

An increasing number of students are being admitted to college with advanced placement in one or more courses on the basis of superior ability and educational attainment in secondary school. The program of advanced placement is looked upon with favor when it improves and increases the challenge of secondary school education and when it permits an enrichment of the student's college years by enabling him to take upper level and graduate level courses, but the program is not encouraged when the aim is merely to speed the student through college. Leaving college at the end of three years is undesirable unless a student's education has been delayed, and he is older than his classmates. In the final analysis, however, it is not the number of years in college or hours in a course, but the quality of education and maturity of a student that determines his readiness for medical school. Since the requirements for admission to the Harvard Medical School now include four courses in science in college, the student who has received advanced placement credit for secondary school science is fortunate in that he will thus enrich his knowledge of the sciences by studying courses at a more advanced level and at the same time assure himself of fulfilling the licensing requirement in all of the United States.

Honors courses and independent study are encouraged both for the educational depth they provide and more so because of the scholarly experience which will develop into a lifelong habit of self education.

No attempt should be made to anticipate the work actually given in medical school — to do so is a double mistake: it elimi-

nates the chance to explore a field that will be unavailable later, and it may give the student a false sense of security in a subject with which he has some familiarity leading him to neglect it in medical school under the competitive pressure of other courses.

The Medical College Admission Test of the Association of American Medical Colleges is required of all applicants for admission and is given in May and October of each year. Applicants are urged, whenever possible, to take this test in May of the year preceding the expected date of matriculation. An application will not be considered from an applicant who has not taken the Medical College Admission Test by October of the year in which he applies.

Information regarding this test, administered by the Psychological Corporation, may be obtained by writing to Medical College Admission Test, the Psychological Corporation, 304 E. 45th Street, New York, New York 10017.

Interview: When the Committee on Admission deems an interview to be helpful, the applicant will be requested to make an appointment with either a member of the Committee in Boston or, if at a distance, with a regional representative. Any applicant is welcome to seek an interview for information or for clarification of the data in his application.

Application Procedure: One class only is admitted each year, to begin in mid-September. Application blanks are ready for distribution after June 1 of the year preceding expected matriculation. These should be returned to the office of the Committee on Admission, Harvard Medical School, 25 Shattuck Street, Boston, Massachusetts 02115, as early in the fall as possible. *No application will be accepted after November* 1. If a student has not received acknowledgment of receipt of his application within two weeks after he has filed it, he should notify the office of the Committee on Admission.

The Admission Committee begins its consideration of applica-

tions shortly after the first of October. The selection of a candidate is based not only upon his intellectual capacity and academic performance but also on the quality and difficulty of the courses taken in high school and college. Grade point averages are considered according to the difficulty of the courses taken. Personal qualifications and broad experiences in extracurricular activities and summer occupations as well as evidence of integrity, good judgment, maturity, and an aptitude in working with people are evaluated. Applications are considered without regard to race, color, creed, country of origin, college of preparation or financial need. It is the individual's own qualifications which determine his acceptance. Since acceptance depends upon a comparison of the total picture of each applicant with all others, notification of acceptance will be sent only on November 15, December 15 and January 10. The majority of the places in the class are offered on the last date. The class roster is usually complete by January 15, when a waiting list is established to fill any vacancies which arise as a result of withdrawals. During the process of studying applications, when it appears that an applicant has little likelihood of being accepted, he will be informed of this fact so that he can make other plans for his medical education.

Applications will not be considered from candidates who have been refused admission on two prior occasions.

Since a complete catalogue is available in most college libraries, it is not usually sent to individuals. The staff of the Admission Office encourages visits from potential applicants.

Admission to the Second and Third Year Classes at the Harvard Medical School

The extensive clinical facilities for teaching in the third and fourth year make it possible to add a limited number of students to the class at the beginning of the third year. Only students of high scholastic standing will be considered for transfer. Preference will be given to applicants for transfer from two year medical schools. Applicants for transfer from other four year medical

schools will be considered only if there are the most compelling reasons for such a transfer and the request has both the approval and hearty endorsement in writing of the dean of the medical school from which a student wishes to transfer. It is requested that the dean's office submit both a transcript of academic performance in the medical school as well as a certificate indicating that the time spent in medical studies is at least equal to that of the class to which a student seeks admission. Full credit for work done elsewhere will be allowed as a rule.

Only an occasional vacancy occurs in the second year class, which may be available to properly qualified transferring students.

Applications for transfer into the second and third year classes may be obtained from the office of the Committee on Admission approximately one year prior to the expected date of transfer. *Completed applications must be submitted by February 1* of the year of transfer. Decisions about transfers into the third year class are made during March. Decisions about transfers into the second year class are not usually determined until the end of the academic year.

No applications for transfer into the fourth year class are accepted.

Information for Servicemen

The Harvard Medical School welcomes inquiries regarding future application from men who are now on active duty with the armed forces. The Committee on Admission cannot act on applications from men still on active duty and not released from service. The applications of men on terminal leave or whose date of discharge is definitely known may be considered by the Committee. The qualifications for admission remain essentially the same for veterans as for civilian applicants. Before the acceptance of a veteran can be final, the applicant will need to submit photostatic copies of discharge papers or similar evidence of honorable release. Where available the applicant should file also a copy of his "Report of Separation" on which is listed in detail his service

record and training. If the Committee does not act favorably on an application, certifications furnished by the applicant may be returned, at his request. It is the responsibility of the applicant to take the necessary steps toward obtaining the governmental benefits for which servicemen are eligible. On request, the section on Veterans Affairs of the Comptroller's Office at Harvard will furnish a statement of the necessary procedures to receive such benefits required by the Veterans Administration. The University has established this office to form a central point for answering inquiries and advising veterans. For matters relating to veterans' affairs and not connected directly with the Medical School, the applicant should feel free to write to the Comptroller's Office, Veterans Affairs, Holyoke Center, 1350 Massachusetts Ave., Cambridge, Massachusetts 02138.

Applications from Foreign Students

A candidate from a foreign university may file application for admission, but if he has attended a university or medical school which has not received approval by the Approving Authority of the Commonwealth of Massachusetts, specific approval from the Authority must be gained before he can be admitted. In order to be eligible to file an application, the candidate must have supplemented, or be in the process of supplementing, his university education with two years of study at an approved college or university in the United States. This policy has been established in order both that the applicant may become familiar with the language, customs, and methods of teaching in the United States, and that the Committee may obtain a better evaluation of his qualifications and preparation for medicine.

Students seeking transfer to the second year class from foreign medical schools may be required to take the examinations in the first year subjects at the regular time they are given at the Harvard Medical School in January and June. Students applying for transfer to the third year at the Harvard Medical School will be required to take Part I of the examinations given by the

National Board of Medical Examiners and to achieve scores satisfactory to the Committee on Admission.

Foreign Students

All students who are not citizens of the United States will be referred before registration to the Harvard International Office, Holyoke Center, 75 Mt. Auburn St., Cambridge 02138, where they must present a statement of admission, show their passports, and fill out a Student Registration form. They will then receive a card for presentation at registration, showing they have been cleared by the International Office.

This office serves as the official liaison agency between the University and the United States Department of State and Immigration and Naturalization Service. It maintains a registry of all non-U.S. citizens in the various Schools or Departments of the University, and it furnishes these members of the University community with information, not only on Immigration regulations, but on the facilities available to them through other Harvard offices, and from recognized outside organizations interested in the welfare, housing and hospitality of those unfamiliar with this country.

Special Students

Individuals wishing to take courses or to engage in special study under the Faculty of Medicine, who are not candidates for the degree of Doctor of Medicine or regularly enrolled as students under another Faculty of the University, may apply for admission as Special Students. Candidates should be mature individuals with serious and compelling reasons for wishing to pursue special programs of study at the Harvard Medical School. Application for admission to the status of Special Student should be submitted to the Chairman of the Committee on Admission of the Faculty of Medicine. Each of these students will be under the charge of the Dean and a member of the Faculty designated by

the Dean to serve as his special advisor. Admission to Special Student status is ordinarily for a maximum of one year. Only with the approval of the student's advisor, the departments concerned, and the Dean may this period be extended. Persons wishing to audit or to take for credit any course in the Medical School must register by filing an application as a special student. Forms are available in the office of the Committee on Admission.

Tuition Fee: Varies according to the courses taken and is based on a proportion of the annual fee for instruction.

Special Students at the Medical School wishing to take courses under the Faculty of Arts and Sciences must register with the Dean of Special Students, Holyoke Center, 75 Mt. Auburn St., Cambridge, Massachusetts 02138.

COURSES FOR GRADUATES

This Department of the Medical School offers qualified physicians courses of varying length in the subspecialties of medicine. Facilities for graduate instruction are available at the Harvard Medical School and at the affiliated teaching hospitals. Information concerning courses can be found in the catalogue of Courses for Graduates, and inquiries should be addressed to Daniel D. Federman, M.D., Assistant Dean.

DIVISION OF MEDICAL SCIENCES

The Division of Medical Sciences as part of the Faculty of Arts and Sciences of Harvard University, provides facilities in the departments of Anatomy, Bacteriology, Biological Chemistry, Neurobiology Pathology, Pharmacology and Physiology of the Harvard Medical School for advanced study and investigation

leading to the degrees of Doctor of Philosophy and Master of Arts. In addition to the facilities of these departments, those of other research laboratories of the Harvard Medical School and its affiliated hospitals are available for the education of students. The Division offers special courses for graduate students in addition to those available to them in the Departments of Biology, Chemistry, Physics, etc. of Harvard University. The study program of the entering student may thus be shaped to meet his or her specific needs and background. The aim of the Division is to provide a broad education in the biological fields mentioned and specialization in one of them for those who wish to pursue a career of research and teaching in medical schools and universities, or of research in government, foundation and industrial laboratories.

Candidates for admission should have a thorough grounding in the biological and physical sciences. This will usually be more than the minimum for admission to medical school. Advanced courses in biology, chemistry, and physics are ordinarily regarded as preferable to undergraduate courses in bacteriology, biochemistry, histology, etc. A reading knowledge of German and one other modern language is desirable but not required for admission. The candidate will be required, however, to pass an examination in German and one other foreign language before graduation.

The minimum requirement for the degree of Doctor of Philosophy consists of not less than two years — at least one of which must be in residence at Harvard — devoted to advanced studies approved as suitable preparation for the degree by the proper department. Ordinarily three or more years are required for the completion of formal courses and preparation of a thesis. In estimating the amount of a candidate's study for the degree, the advanced work done in other graduate departments at Harvard or of other universities will be considered. Medical students who have successfully completed their first or second year may apply for admission to this Ph.D. program and receive credit for some of the course work completed as a medical student.

It is expected that the preparation of a thesis will require full

time for usually not less than one and a half years. It must show original treatment of a fitting subject, give evidence of independent research, and be clearly, logically, and carefully written in good English. Following acceptance of his thesis, the candidate is given an oral Final Examination on the subject of his thesis and its relation to his special field and collateral subjects.

Candidates for the Doctor of Philosophy and Master of Arts degrees are registered in the Graduate School of Arts and Sciences for study in the Division of Medical Sciences. Students interested in graduate study in the Division should see the *General Announcement of the Graduate School of Arts and Sciences* and the pamphlet entitled *Higher Degrees in Medical Sciences.* These can be obtained from the Admission Office, Graduate School of Arts and Sciences, 75 Mt. Auburn Street, Cambridge, Massachusetts 02138.

Inquiries should be addressed to the Chairman of the Division of Medical Sciences, 25 Shattuck Street, Boston, Massachusetts 02115.

SCHOOL OF PUBLIC HEALTH

The School of Public Health is one of the graduate schools of the University. Instruction and research opportunities are available in the several fields which underlie the protection of health and the investigation and control of diseases in communities. These include the basic public health sciences, biostatistics, epidemiology, health services administration, and environmental health. Other significant aspects of public health are represented by departments of demography and human ecology, microbiology, nutrition, tropical health, maternal and child health, behavioral sciences, and a newly created Division of International Health.

Students enrolled in the Medical School may take courses at the School of Public Health with the approval of the Head of the Department concerned. Further information and a catalogue may

be obtained from the Registrar at 55 Shattuck Street, Boston, Massachusetts 02115.

GENERAL REGULATIONS

In order that the time of study shall count as a full year, students of all upper classes must register on the first day of the session. A fee of $10 is charged for late registration.

For special and approved purposes fourth year students may be allowed to take a portion of their work elsewhere than at the Harvard Medical School, provided the application be approved by the Dean in consultation with the Administrative Board and the head of the department concerned, and provided the student passes an examination on this work after its completion, conducted by a member of the Faculty of the Harvard Medical School.

Examinations and Promotion

Promotion from one class to another is contingent upon the satisfactory completion of the required work of each year. In each course, when indicated, students will be informed by their instructors as early as possible when the progress of their work is unsatisfactory.

Final grades in each course will be based upon such examinations or other tests as are determined by each department. Grading is on the scale of A, B, C, D, and E (denoting failure).

Grades are averaged on the basis that A = 1, B = 2, C = 3, D = 4 and E = 6. In calculating this average, time devoted to a course is taken into account.

Promotion Boards

Promotion Boards have been appointed for the first, second and third years to review the work of each student at the end of the year or, at their option, at other times. The membership of

these boards consists of one representative from each department whose grading, as noted above, affects the student's grade average and one member from the Committee on Examinations and not as voting members, the Dean or Assistant Dean, *ex-officiis*, and on the Promotion Boards of the first and second years, the Dean of the School of Dental Medicine, *ex-officio*.

It is the duty of the Promotion Boards to promote those qualified, to notify formally students whose work in any course is unsatisfactory — in certain cases requiring that such students repeat the year's work — and to recommend that unpromising students withdraw from the School.

Opportunity will be given to students to appeal the decision of a Promotion Board either at a special meeting or at the next regular meeting of the Board. Appeals must be sent to the Chairman of the Promotion Board, Harvard Medical School and, to be valid, be received by him within two weeks after the issuance of a Promotion Board's notice of formal action.

General Examination

A committee will give a General Examination to each candidate for the degree of M.D. It will recommend to the Faculty those who pass and are otherwise qualified for the degree and for honors. The conditions under which a student shall take a General Examination and the character and content of the examination will be determined by the Committee subject only to rules of the Faculty.

A student becomes eligible to take a General Examination on successfully completing seven-eighths of his fourth year work. He may not anticipate the General Examination ahead of his class.

A student who fails three General Examinations is debarred from further attempts.

Rules Governing Promotion

1. A student with a grade averaging, for one year, from D(4) to E (6) will ordinarily be required to withdraw from the School.

2. A student whose grade for one year averages from 3.5 to 4 will be warned that his work is unsatisfactory. At the Promo-

tion Board's discretion such a student may be required to repeat the year's work, or to withdraw from the School.

3. A student who is set back a year must repeat at least two assigned subjects and then he will not be promoted unless he obtains a grade of C or better in both of these subjects.

4. A student who is warned by a Promotion Board that his work is unsatisfactory and yet is permitted to advance with his class must attain for the ensuing year a grade average which is significantly better than in his previous year, failing which he must repeat the year's work, or, at the Board's discretion, he may be required to withdraw from the School.

5. A student failing in any course and yet permitted to advance with his class may not be promoted a second time nor will he be allowed to take the General Examination until that failure is removed.

6. A student failing any course will have an opportunity for re-examination only at a time set by the Promotion Board or with a succeeding class or section.

Leave of Absence

The Faculty of Medicine believe that certain students may profitably be granted a leave-of-absence from the School for specified periods of time in order to pursue at other institutions studies and research activities related to medicine. A leave-of-absence for this purpose should be requested from the Dean's Office. It will be granted at the discretion of the Dean.

Withdrawal from the School

A student may withdraw from the School voluntarily upon application to the Dean's Office.

A student may be required to withdraw from the School at any time if in the opinion of his instructors he is not competent to pursue his assigned course of study or if the Faculty of Medicine determine that he is for any reason unfit to continue as a student

in the School. In addition, any student who is absent without leave from scheduled courses for more than a total of 30 days during the academic year will be required to withdraw from the School.

Application for reinstatement by any student who has withdrawn voluntarily or who has been required to withdraw from the School, must be received in writing by the Committee on Admission of Students at least four months prior to the requested date of readmission. Reinstatement will be made only upon the recommendation of the Committee on Admission.

DEGREES

Doctor of Medicine

Every candidate for the degree of Doctor of Medicine at this University must be at least twenty-one years of age, and of good moral character. He must have fulfilled all the requirements for admission to this Medical School; give evidence of having studied in a recognized medical school at least four full years, of which one year must be spent in the regular fourth year course of this School; have passed all the required examinations; have dissected the three parts of the body to the satisfaction of the demonstrator; and furnish evidence of having engaged in the practical exercises in Medicine, Surgery and Obstetrics.

The degree of Doctor of Medicine *cum laude*, *magna cum laude*, or *summa cum laude* may be given to students of highest rating in the class, on recommendation of the Committee on Examinations and the Faculty.

The degree of Doctor of Medicine *cum laude*, *magna cum laude*, or *summa cum laude* for a thesis in a special field may be awarded to candidates for the degree of Doctor of Medicine on recommendation of the Committee on Examinations and the Faculty. The work for this may have been carried out under the Tutorial System or by independent arrangement with any member of the Staff.

The degree is awarded for original and meritorious investigation in a single subject or group of subjects and for evidence of ability, scholarship and persistent interest and industry. Candidates wishing to be considered for such honors in a special field must apply to the Dean's Office not later than March 1 of the year of graduation and must submit two typewritten copies of an original thesis prepared in form usual for publication. The written approval of the head of the department in which the work was completed must be attached.

The thesis should include an introduction with references to relevant literature; a brief statement of the purpose of the study; a description of the materials and methods employed; an account of the original observations included; a discussion of the results; a summary; and a list of the references used.

No candidate is eligible to graduate with honors for a thesis in a special field unless he has done creditable work in his regular curricular studies and has passed the General Examinations. In addition, any candidate whose qualifications are acceptable for honors in a special field must pass an oral examination before the Subcommittee on Honors in a Special Field and invited special examiners in which he will be examined not only on the subject of his thesis but on the general field of which it is a part.

Every candidate for the degree of M.D. must make application for it in writing on blanks furnished at the Dean's Office, on or before April 1.

Doctor of Dental Medicine

Every candidate for the degree of Doctor of Dental Medicine at Harvard University must be at least twenty-one years of age and of good moral character. He must have fulfilled all the requirements for admission to this school; give evidence of having studied at least two full years in basic health sciences comparable to those offered in the first two years of this school and two years in a recognized dental school, of which one year must be spent in the regular fourth year course of the Harvard School

of Dental Medicine. He must have passed all the required examinations and have satisfactorily completed the minimum requirements for work in the various laboratories and clinics.

The degree of Doctor of Dental Medicine *cum laude* or *magna cum laude* may be given to students of highest general rating in the class, on recommendation of the Committee on Examinations. The degree is also awarded, where appropriate, with honors for a thesis in a special field.

Application for the D.M.D. degree, on a form provided by the Dean's Office, must be filed at that office prior to April 1 in order for the student's name to be placed on the list of degree candidates at Commencement.

Doctor of Medical Sciences

Candidates for this degree must matriculate as medical students and complete with an honor grade the regular elementary courses offered by this School, together with such other subjects as may be recommended by the Faculty. Ordinarily this preparatory training will be equivalent to the first two years of the course of study leading to the degree of M.D. In addition, all candidates are required to have a reading knowledge of French and German. In estimating the amount of a candidate's study for the degree, study completed in other approved medical schools will be considered.

Following the completion of this preliminary training, the student shall devote himself for not less than two years to the intensive study of one of the fundamental medical sciences and to the preparation of a thesis. The thesis must show an original treatment of a fitting subject and give evidence of independent research.

There shall be two examinations for every candidate for this degree: a general examination, before entering upon the work of the last two years, covering the elementary medical sciences; and a final examination, upon acceptance of the thesis, covering the particular medical science chosen as a special field.

Higher Degrees in the Medical Sciences

The degrees Doctor of Philosophy and Master of Arts are offered for advanced work in some special field in the medical sciences and are administered by the Faculty of Arts and Sciences, through the Division of Medical Sciences, which consists of faculty members of the preclinical departments of the Medical School. All candidates for these degrees are registered in the Graduate School of Arts and Sciences for study in the Division of Medical Sciences and must hold a degree in Arts or in Sciences from an approved college.

(See section on Division of Medical Sciences on page 39.)

FEES AND EXPENSES

An estimate of total yearly expenses shows that the average cost of the school year is approximately $3,900 for each academic year. This estimate includes tuition, medical health fee, board and room, books, laundry, and incidentals.

The fees are:

Matriculation	$5	
Medical Health Fee	$95	each year
Instruction	$2,000 *	each year

* Includes laboratory charges except microscope rental, breakage, damage, loss of apparatus, etc.

Term bills for the year 1967–68 are issued and payable as follows:

Issued	*Payable*	*Basic Charges*
At Registration	Presentation	¼ Tuition for the year ½ Medical Health Fee
Nov. 20	Dec. 10	¼ Tuition for the year Board through Oct. 31 ¼ Room Rent for the year Coupon Books through Oct. 31 Miscellaneous Charges

Jan. 20	Feb. 10	¼ Tuition for the year ½ Medical Health Fee Board through Dec. 31 ¼ Room Rent for the year Coupon Books through Dec. 31 Miscellaneous Charges
Apr. 20	May 10	¼ Tuition for the year Board through March 31 ¼ Room Rent for the year Coupon Books through March 31 Miscellaneous Charges
June 5 *	June 15	Board to the end of year ¼ Room Rent for the year Coupon Books to the end of the year Miscellaneous Charges
June 30	July 15	Board to the end of year ¼ Room Rent for the year Coupon Books to the end of the year Miscellaneous Charges

* Applies only to candidates for degrees.

The term bills are sent to the student at his college address unless the Comptroller is requested in writing to send them elsewhere.

Any student whose indebtedness to the University remains unpaid on the date fixed for payment is deprived of the privileges of the University. Reinstatement is obtained only by consent of the Dean of the School in which the student is enrolled, after payment of all indebtedness and a reinstatement fee of $10. In addition as a condition of reinstatement such student is required to file with the Comptroller a bond in the amount of $1,000 as security for the payment of future term bills.

Students who are candidates for degrees must pay all dues to the University at least one day before the day upon which the degrees are to be voted.

A student who leaves the University for any reason must pay all charges against him immediately upon receipt of a bill from the Comptroller.

Students will be held responsible for the payment of fees until they have notified the Dean in writing of their intention to withdraw from the School.

Microscopes

The School requires that each student secure a standard student microscope, preferably less than twenty years old, with a minimum of two oculars and three objectives including an oil immersion lens. A mechanical stage is not essential. The minimum requirements are as follows:

2 oculars 5X and 10X
1 oil immersion objective
1 16mm. objective
1 4mm. objective
1 complete substage —Abbe condenser and Iris diaphragm

In addition, the following are recommended by the Department of Pathology:

1 scanning objective 2–3X 1 quadruple nosepiece

The Medical School has a limited number of binocular microscopes available for rental each year to first and second year students unable to provide their own. The rental charge is $55 a year.

Dormitory

Vanderbilt Hall, the Medical School dormitory, has accommodations for 305 male and 20 female students. The majority of the rooms are designed for one occupant. Many of the rooms communicate directly with the adjacent room, and there are also a number of suites for two or more persons. The price of rooms ranges from $300 to $575 per person for the academic year. Application forms for rooms in Vanderbilt Hall will be sent to all new

students approximately four months before registration day. The date on which they must be returned in order to be included in the drawing will be announced at that time. Students are permitted to reengage their rooms for the following year by signing lease cards at the Student Affairs Office. The dormitory has squash courts, a tennis court, and a gymnasium which are open to members of the teaching staff and students of the Medical School. There is a parking lot for a limited number of automobiles behind the dormitory. The School assumes no responsibility for loss or damage to automobiles or other property left in the lot. First year students are urged not to bring cars.

Dining Hall

The dormitory contains a large dining hall which is available for all members of the medical area. First year students living in Vanderbilt Hall will be required to pay full board, $682, for the academic year (September 15, 1967 through June 8, 1968) for 21 meals a week. Second year students living in Vanderbilt Hall will be required to pay full board, $700, for the academic year (September 8, 1967 through June 8, 1968) but in the second term compulsory meal contracts may be amended to provide for absence from lunch during the three clinic days of each week. A proportionate decrease in the full board rate will be made for the period involved. Students desiring the amended contract should apply to the Dining Hall checker. Graduate students and others living in the Hall will also be required to sign on for the 21 meals a week for their first two years of residence.

Student Health Service

The Medical Area Health Service, providing medical care for the students, is open Monday to Friday from 8:30 a.m. to 5:00 p.m. Saturday from 9:00 a.m. to 12:00 noon. On Saturday afternoons, Sundays, nights, and holidays one of the staff physicians of the Health Service is available by telephone. If emergency

care is required, the Emergency Ward of the Peter Bent Brigham Hospital may be utilized. A complete medical examination of each new student is required at the beginning of the school year. This is conducted by appointment shortly after school opens.

Upon registration, each student receives a booklet which describes the medical services available from the Medical Area Health Service. Hospital insurance is available through the plan for wives and children of married students.

Successful small pox vaccination within three years prior to entrance to Harvard Medical School is required. A completed certification of vaccination must be submitted before registration.

Any illness necessitating absence from classes must be reported to the Health Service.

Student Employment

Only a limited amount of outside work can be done without taxing a student's health and scholarship, and the student is urged, when it is possible, to devote himself to a regular program of study and recreation, giving as little time to outside work as is feasible with his plan for financing his medical education. A limited number of positions offering room and board in return for laboratory or minor clinical services in hospitals are available to second, third, and fourth year students. Few opportunities are open to first year students.

SCHOLARSHIPS

Harvard Medical School National Scholarships

In order to make it possible for young men of outstanding ability and promise to come to the Harvard Medical School, two or three Harvard Medical School National Scholarships will be offered to incoming members of the first year class. These scholarships will carry a stipend sufficiently large, if necessary, to meet all the student's essential expenses. Successful applicants who maintain a

high honor record at the Medical School will continue to hold these scholarships throughout the Medical School course.

The offer of these scholarships is made possible by gifts from Mr. Edward S. Harkness, Dr. Daniel F. Jones, and Dr. Franklin S. Newell. The donors expressed the hope that through these scholarships superior men who could otherwise not receive a medical education would be enabled to attend the Harvard Medical School. They also expressed the hope that some of these men might wish to return to their own communities to carry on the practice of medicine.

Direct application for these scholarships cannot be made since all accepted first year students are considered as candidates, the awards being made without reference to financial circumstances. The stipend will vary depending on the resources of the recipient.

General Scholarships

The following scholarships are open to students who have been admitted to the School at the time of application. Approximately $175,000 is available annually from the general scholarship funds.

The Cheever, Gerry, Greene, and Haven Scholarships are awarded only to students of the first year class. The Hayden and Webster Scholarships may be so awarded. All the other scholarships are available to members of all classes.

Information concerning all forms of financial assistance may be obtained from the Office of the Committee on Admission.

Edwin H. Abbot (1967). To provide scholarships for students in the Medical School.

Vivian B. Allen (1954). To provide scholarship aid for men who are unable to pay their own way for medical training.

Anonymous No. 60 (1960). To provide scholarships for students in the Medical School.

Edward Dana Barbour Fund (1928). For promoting medical

education in China, preference to students coming from Shanghai or its environs.

Edward M. Barringer Fund (1881). Edward M. Barringer. For the maintenance of two scholarships for students in the Harvard Medical School. Awarded to deserving students, preference being given to those of the fourth year class.

Edward M. Barringer No. 1

Edward M. Barringer No. 2

Gordon Bartlett (1919). Mr. and Mrs. Donald Gordon, in memory of their nephew, Gordon Bartlett, a student at Dartmouth College who died of wounds at St. Mihiel while serving in the Seventeenth Field Artillery. Preference is given to graduates of Dartmouth College. This scholarship will ordinarily be divided between two men.

Matthew and Mary E. Bartlett (1916). Miss Fannie Bartlett. in memory of Matthew and Mary E. Bartlett. For the benefit of a worthy and meritorious student who is in need of financial assistance.

Walter Bauer (1965). The Helen Hay Whitney Foundation. Scholarships or other beneficiary aid for any qualified student engaged in studies under the supervision of the Faculty of Medicine.

George Packer Berry (1965). Harvard Medical Alumni Association.

Lucius F. Billings (1900). Lucius F. Billings. May be divided between two or more students.

Dr. Robert Bonney Fund (1944). Robert Bonney, M.D. 1898. For the aid of needy and meritorious students.

John White Browne (1918). Mrs. Francis B. Greene. Scholarships for students in the Harvard Medical School.

James Jackson Cabot (1906). Arthur T. Cabot, Samuel Cabot

and Guy C. Cabot. For the support of scholarships for students in the Medical School.

Henry Fassett Castle (1941). William E. Castle, A.B. 1893, A.M. 1894, Ph.D. 1895, as a memorial to his son, Henry Fassett Castle, who died in November, 1919, at the age of 19, having completed the previous June the work of the first year in the Medical School.

David Williams Cheever (1889). David Williams Cheever, A.B. 1852, M.D. 1858, LL.D. For a first year student after three months' study in the Medical School.

David Williams Cheever #2 (1947). David Cheever, A.B. 1879, M.D. 1901. To be awarded at the beginning of the year to a first year medical student in hope that after the stated probationary period he may be awarded the scholarship founded by David Williams Cheever, A.B. 1852, M.D. 1858.

Eleanor Dwight Clark (1938). For one or more scholarships of the type of the Harvard National Scholarships.

Owen Copp (1936). Hattie G. Copp. To assist one or more needy and worthy students.

Cotting Gift (1900). Benjamin E. Cotting, A.B. 1834, M.D. 1837. Awarded on the basis of pecuniary need, intellectual capacity, faithfulness, and earnest endeavor.

Myron Denton (1956). Myron P. Denton, in memory of his father.

Orlando W. Doe (1893). Orlando Witherspoon Doe, A.B. 1865, M.D. 1869. To be given annually to a deserving student in the Medical department.

George Russell Eager (1936). Miss Mabel T. Eager, in memory of her father.

Henry Ehrlich Memorial (1927). Friends and family of

Henry Ehrlich, M.D. 1886. To be used for the assistance of needy and worthy students regardless of creed or color.

Russell Dunson Elliott (1950). Awarded annually to properly qualified applicants, preferably of Anglo-Saxon ancestry.

Horace Putnam Farnham (1918). Mrs. Eliza Cary Farnham in memory of her husband, Dr. Horace Putnam Farnham, A.B. 1843. For the benefit of meritorious students in the Harvard Medical School.

Reginald Fitz (1954). Scholarships for students in the Harvard Medical School.

Dr. E. Peabody Gerry (1943). The income to aid first year students.

Charlotte Greene (1925). Edwin Farnham Greene. For a first year student whose previous record indicates special promise.

Dr. C. Eugene Gunther (1933). Mrs. C. Eugene Gunther in memory of her husband. To be used to maintain two scholarships for the benefit of deserving medical students.

William Waugh Haggart (1955). G. Edmund Haggart, M.D. In memory of his brother for scholarships, beneficiary aid or loans.

Edward Warren Harnden (1957). William H. Snyder, Jr. and Monica H. Snyder. For scholarships, loans or other financial aid.

Dr. Charles Harrington (1959). In memory of Dr. Charles Harrington. Beneficiary aid for deserving students.

Faith Garrison Harwood (1964). Dr. Reed Harwood. Scholarships for any qualified students at the Harvard Medical School.

George Haven (1913). George Haven, M.D. 1883. To be used annually for scholarships for students of the first year in the Medical School.

Lewis and Harriet Hayden (1894). Mrs. Harriet Hayden. For colored students. The income may be divided. If not awarded in the Medical School, the School of Public Health, or the School of Dental Medicine, it is open to colored students in any other department of the University.

Health Professions Scholarship. Department of Health, Education, and Welfare (Public Health Service) under the Health Professions Educational Assistance Act.

Frederick Warren Hecker (1963). Bequest of Eugene A. Hecker in memory of Frederick Warren Hecker. For scholarships to worthy and needy students.

Ernest Laurence Hill (1961). Annette S. Hill. In memory of son — to assist medical students from Maine and New Hampshire.

William Hilton (1897). Two scholarships annually in the Medical School.

Lena C. Howard (1967). For scholarships to worthy colored students in the Harvard Medical School.

William Otis Johnson (1911). Mrs. William O. Johnson, in memory of her husband, William Otis Johnson, A.B. 1845, M.D. 1848.

Claudius M. Jones (1893). Claudius Marcellus Jones, A.B. 1866, M.D. 1875.

Thomas Hinckley Lanman (1961). Established by the Harvard Medical Alumni Council.

Frederic T. Lewis (1965). Bequest of Ethel S. Lewis. Scholarship for a first year student.

Alfred Hosmer Linder (1895). Mrs. George Linder. For a student of sound principles and marked ability.

Arthur Theodore Lyman and Henry Sturgis Grew Me-

MORIAL SCHOLARSHIP (1926). On March 19, 1951, it was voted by the Corporation . . . "to provide that such income shall be available, until further order of this board, for scholarships in the Medical School, the School of Dental Medicine, and the School of Public Health; preference to be given to Chinese students, with the understanding that if none such apply successfully, the income may be used for scholarships for students from elsewhere in the Far East."

GEORGE STURTEVANT MACPHERSON (1965). Estate of Janice M. Blood. Scholarships for deserving students preferably from the State of Maine or from New England.

JAMES EWING MEARS, M.D. (1909). J. Ewing Mears. For a student throughout the full course of four years, subject to his scholastic standing and good conduct.

MEDICAL SCHOOL CLASS OF 1879 (1909). Established by the Class of 1879 as a loan fund and later converted to a scholarship.

JOHN MORGAN MEMORIAL (1961). The Francis Beidler Charitable Trust. For scholarships or other financial aid for students from the State of Illinois.

ERNEST OMAR NAY (1947). Ernest Omar Nay, M.D. 1919. For a medical student from the states of Indiana, Illinois or Ohio whose scholarship is above the average and whose financial resources are such that he cannot unaided acquire a medical education.

JOSEPH PEARSON OLIVER (1904). Patients of Joseph Pearson Oliver, M.D. 1871. To be awarded to a needy and deserving student of the Medical School.

J. ELIOT OVERLANDER (1947). John Eliot Overlander, M.D. 1909. To assist such needy medical students as may be deemed worthy of assistance by the proper authorities.

ALWIN M. PAPPENHEIMER '99 (1957). Beatrice L. Pappen-

heimer. For the benefit of such graduate students in the fields of medicine or music.

Jacquelyn Pines (1966). Scholarships to incoming students.

Charles B. Porter (1897). William L. Chase.

Dr. Flavius Searle (1921). Miss Mary L. Searle, in memory of her father, Dr. Flavius Searle. The stipend may be divided.

Joseph J. Silbert (1937). For scholarship or loans to needy students.

Eleanor B. and Channing S. Simmons (1954). Scholarships for two needy students.

Francis Skinner (1905). Francis Skinner, Esq. To be used in small sums to meet the urgent needs of meritorious students in the payment of term-bills or other expenses.

Charles Pratt Strong (1894). Friends and patients of the late Charles Pratt Strong, A.B. 1876, M.D. 1881.

Isaac Sweetser (1892). Mrs. Anne M. Sweetser. To be "devoted to the aid of poor students of ability who would not otherwise be able to continue the studies necessary for their profession."

Edward W. and Elsie B. Taylor (1961). Katherine B. Taylor. For financial aid to students.

John Houghton Taylor (1966). Mrs. John H. Taylor in honor of her husband, John H. Taylor, A.B. 1913, M.D. 1916. For financial aid to students.

John Thomson Taylor (1899). Mrs. Frederic D. Philips, in memory of her brother, John Thomson Taylor. To be paid to some meritorious undergraduate of the Medical School without regard to his pecuniary circumstances.

Mary Thacher (1956). Mary Thacher. To be applied against the tuition of needy students preferably from first, Yarmouth, Massachusetts, secondly from the Cape Cod region of Massachusetts, and thirdly from Massachusetts.

James Rockwell Torbert (1958). Elizabeth T. Torbert. In memory of her husband James Rockwell Torbert, H.M.S. 1902.

Walker Scholarships (1922). Miss Leslie Walton Walker, four scholarships.

Dr. Charles Walker

Helen L. Walker

Anna G. Walker

Leslie W. Walker

Richard H. Wallace (1960). The family and friends of Richard H. Wallace, H.M.S. 1927.

Abraham A. Watson (1923). Miss Catherine E. Walker. For the benefit of students in the Medical School.

Major Harrison Briggs Webster, U.S.A. Memorial (1921). Gift of L. Florence Webster in memory of her son, Class of 1905, to sons of members of that class or to a needy student in the Medical School.

Charles H. Weed Memorial (1961). Friends, students, and patients of Dr. Weed. For scholarship or other financial aid to students.

Dr. Charles J. White (1959). Mrs. Bertha Lea Stone, Mr. Charles B. Barnes and Sundry Donors. For scholarship or fellowship or other academic purpose.

Edward Wigglesworth (1897). The family of Edward Wigglesworth, A.B. 1861, M.D. 1865.

James F. and Helena C. M. Willis (1961). Helena C. M. Willis. For a student who is a native of Boston.

George Bernays Wislocki (1957). The family and friends of Dr. Wislocki. For one or more graduates or medical students who show unusual promise in some area of the basic medical sciences.

Paul Richmond Withington, Jr. (1960). The family and friends of Paul Richmond Withington, Jr.

S. Burt Wolbach (1955). Dr. and Mrs. Robert E. Gross.

School of Dental Medicine Scholarships

The Harvard School of Dental Medicine is fortunate in having financial assistance available to its students. Scholarships are awarded on the basis of academic excellence, financial need or a combination of factors. Application for financial aid may be made at any time to the Associate Dean for Student Affairs of the School of Dental Medicine.

Joanna Alford Bequest (1785). Mrs. Joanna Alford. To be used for scholarships for those students who are under low and indigent circumstances.

Lawrence Wills Baker Memorial Fund (1956). The gift of friends in memory of Dr. Baker, '98, Professor of Orthodontia. A scholarship for a student who has shown aptitude and interest in the field of orthodontics.

Dwight M. Clapp (1926). Clara Josephine Clapp in memory of her husband, Dwight M. Clapp, D.M.D. 1882. For the education of a male student born in Massachusetts, preferably one who has a college education or training of a classical character.

Dental School Alumni Scholarship (1937). A gift of the Class of 1912.

Thomas Alexander Forsyth (1929). Thomas Alexander Forsyth scholarship to two deserving men, awarded continuously until they have completed the course.

Harvard Dental Alumni (1949). Selection of a candidate shall be based upon character, scholarship, and promise within the field of dentistry. The award may be offered as a scholarship

to an undergraduate student of the third or fourth year or as a fellowship for graduate work.

Harvard School of Dental Medicine National Scholarship (1960).

As part of the Harvard National Scholarship plan, prize scholarships are awarded to one or more members of each class entering the Harvard School of Dental Medicine. The selection of recipients is based on academic promise without reference to financial need. The amount of the stipend, however, is in proportion to the student's actual necessities, except that a certain minimum award is granted to all prize scholars. Each student accepted by the Committee on Admission is considered as a candidate for a National Scholarship. An individual application cannot be made. The prize scholarship is awarded for one year. If the student maintains a satisfactory record, the scholarship will be renewed annually.

Health Professions Scholarship. Department of Health, Education, and Welfare (Public Health Service) under the Health Professions Educational Assistance Act.

Frank Randall McCullagh (1964). Estate of Frank R. McCullagh. To assist worthy and indigent students to finance themselves through dental training.

Eugene Hanes Smith (1920). Alumni Association. To be awarded to a third or fourth year student who has been a student in regular standing during the first and second years.

Peter E. Strauss (1922). Emily R. M. Strauss. In memory of her husband.

Clarence B. Vaughan (1965). Bequest of Clarence B. Vaughan. To aid worthy students in acquiring and completing their education in dental medicine.

Fellowships and Scholarships Available in other Departments of the University as well as in the Medical School and School of Dental Medicine

The fellowships, scholarships and loans listed below which are marked with an asterisk (*) give preference to, or are restricted to, students who come within the special terms set forth. Unless otherwise stated, applications should be made, before February 1, to the Deans of the Medical School and School of Dental Medicine.

*John Austin Amory, Class of 1907, Scholarship Fund (1954). Gift of Roger Amory, Class of 1910, to establish "the John Austin Amory, Class of 1907, Scholarship Fund . . . . to provide one or more scholarships for candidates for a degree in any college or graduate school of the University." Under certain conditions a grandson by male line of John Austin Amory, '07, may be entitled to the income. If no awards are made to preferential candidates, the income shall be assigned to the College Admission and Scholarship Committee.

John E. Andrus Scholarship Fund (1966). A gift "for scholarship or fellowship grants in such amounts and to such worthy and needy students at the college or any of the graduate schools as the University, through its appropriate committee, shall from time to time determine."

Anonymous No. 63 (1961). Anonymous gift "to provide an endowment fund, the income to be used for scholarships to graduates or undergraduates in Harvard University or Radcliffe."

Hattie G. Atkins Bequest (1961). Residuary bequest of Hattie G. Atkins in memory of her ancestor, Matthew Gannett, the income to be used for not more than two graduate or undergraduate scholarships.

William Bridgman Atkinson '39 Memorial Fund (1952). Anonymous gift "to provide one or more scholarships or bene-

ficiary grants to graduates or undergraduates in Harvard University. These awards shall be based on need and character and not scholarship alone."

Edward Austin Bequest (1899). For fellowships or scholarships in any department of the University.

Jason S. Bailey Fund (1952). Residuary bequest of Jason S. Bailey. For scholarships in any department of the University.

Frank B. Baird, Jr. Fund (1955). Gift of the Frank B. Baird, Jr. Foundation, to establish the Frank B. Baird, Jr. Scholarship. Income assigned to the Graduate School of Education.

*Zlatko and Joyce Balokovic Scholarship Fund (1966). A gift of Joyce Balokovic in memory of her husband to . . . "promote better international relationships through growing understanding among all peoples and in particular between the people of Yugoslavia and the United States of America." For a student from Croatia or Yugoslavia. Nominations to be submitted by the Yugoslav Academy of Arts and Sciences in Zagreb.

Albert M. Barnes Memorial Fund (1959). The income only to be used "for scholarships for students in Harvard University who are worthy recipients of such aid."

Ellen S. Bates Fund (1929). Residuary bequest of Ellen S. Bates. For scholarships to deserving students in any department of the University. To be awarded every third year, with the next award to be made in 1970.

*Baxendale Scholarship (1928). Bequest of Esther M. Baxendale. Preference: (1) descendants of Alan Bedford Hudson; (2) students of the name of Baxendale or Hudson; (3) students from Brockton, Mass., or Bourne, Mass. Birth certificate and genealogical record required of (1).

Henry A. Belcher Fund (1965). Bequest of Hannah B. Belcher. To establish a fund "to be known as the Henry A.

Belcher Fund, the income of which shall be used in providing free scholarships for students of said University as the Trustees or officers thereof may direct."

*Frank Boas Scholarship Fund (1964). Gift of Mr. and Mrs. Maurits C. Boas, "to establish a graduate scholarship in any one of the graduate schools of Harvard University for one year of study. Nominations shall be submitted by the United States Educational Foundation in Belgium from applicants from Belgium or the Grand Duchy of Luxemburg, and the award shall be made by the appropriate authorities of Harvard University upon the admission of the student to the University. The income of the Fund shall be used as needed to cover all expenses in the United States including tuition. With the approval of the Foundation the award may be renewed for one additional year. In the event the Foundation fails to submit nominations for three years the income of the Fund may be used by Harvard, for financial aid to students from Belgium or the Grand Duchy of Luxemburg."

*Bright Legacy (1880). Bequest of Jonathan Brown Bright. For descendants of Henry Bright, Jr., of Watertown, Mass., who bear the name of Bright, registered in any department of the University. If no awards are made to preferential candidates, the income shall be assigned to the College Admission and Scholarship Committee. Birth certificate and genealogical record required to establish special claim.

*Daniel A. Buckley Bequest (1905). Bequest of Daniel A. Buckley of Cambridge, Mass. For needy and worthy graduates of Latin, High and other public non-sectarian schools in Cambridge enrolled in any department of the University. Awards to undergraduates will be made by the College Admission and Scholarship Committee.

*Godfrey L. Cabot, Inc. Scholarship Fund (1955). For scholarships and grants of "aid" to students enrolled in any department of the University. A son of an employee of Godfrey L. Cabot, Inc. or of its subsidiary and associated companies, who applies

for aid or a scholarship, may be preferred in the awards from this fund.

*Frank Lawton Cady Scholarship Fund (1965). Residuary bequest of Caroline Cady Hewey . . . "for the purpose of establishing a scholarship or scholarships as a memorial to my said father, . . . the income of which shall be expended primarily in assisting worthy and deserving students, graduates of the Mansfield High School in obtaining an education at Harvard University."

*Frank Milton Cady Scholarship Fund (1965). Residuary bequest of Caroline Cady Hewey ". . . in memory of my brother, Frank Milton Cady, for the purpose of establishing a memorial to him, and to be known as the "Frank Milton Cady Scholarship," the income thereof to be expended primarily in assisting worthy boys of good character from the Mansfield High School."

James Emerson Carpenter Fund (1963). Residuary bequest of Emmie L. Carpenter "to be devoted annually for deserving and needy students." A portion of this fund has been set aside for use by the University Health Services at the discretion of the Director to assist needy and worthy students meet unusual medical costs.

* Madame Marguerite Carrière Fellowship Fund (1959). Residuary bequest of Louis A. Freedman in memory of his wife. The fellowship is to be awarded in alternate years to a graduate student at Harvard University for study in France and to a French graduate student for study at Harvard University. It is hoped that the aim of the American student in France will be to study the French traditions and attitude so as to better understand and explain the French reaction to the problems that concern both countries and that similar aim will guide the French student in America. In 1968–69 this award will be available to a Harvard graduate student for study at a French university.

*Victor Emmanuel Chapman Memorial Fellowship (1917). Several donors. In memory of Victor Emmanuel Chapman, A.B.

1913, killed in World War I. For a French youth (or youths) for study in any department of the University. Apply through the Institute of International Education, 800 Second Avenue, New York, New York 10017, before December 1. Students already enrolled at Harvard should apply through their Schools.

*Joseph Hodges Choate Memorial Fellowship (1919). Gift of the Harvard Club of New York City in memory of Ambassador Joseph Hodges Choate, A.B. 1852. Awarded upon the nomination of the Vice-Chancellor of the University of Cambridge, England, to a British subject coming from that University to study in any department of Harvard University.

*George Chase Christian Memorial Scholarships (1936). Gift of Carolyn McKnight Christian in memory of her husband, George Chase Christian, A.B. 1895. To be awarded as National Scholarships to residents of Minnesota, for study in any department of the University, preferably the graduate schools.

*Mark D. Cory Scholarship (1954). Residuary bequest of Mark D. Cory. To be awarded to a worthy graduate of the Gadsden High School, Gadsden, Alabama, to be selected and designated by the faculty of said high school. Available for students in any department of the University. Administered by the College Admission and Scholarship Committee.

*Myer Dana and Etta Dana Scholarship Fund (1953). Gift of Etta (Mrs. Myer) Dana. To provide scholarships or beneficiary aid to needy and deserving students in the College, Law School, or Medical School. Awards are made upon the recommendation of the Deans of these Schools and not upon application.

Frank L. DeLong Bequest (1964). Residuary bequest of Frank L. DeLong, A.B. 1890, A.M. 1892. The income is to be used for scholarships in Harvard University.

*Charles Downer Scholarship Fund (1927). Bequest of Charles Downer, A.B. 1889, LL.B. 1892. For students in any de-

partment of the University in the following order of preference:

A. Students of "English or Anglo-Saxon stock" who bear the family surname of Downer by right of birth or inheritance, and not because of adoption, preference to be given to such students who are descendants of Joseph and Robert Downer, of Wiltshire, England, who came to America about 1650. Scholarship awards under this category will be sufficient to pay for tuition, books, food, room and other incidentals in any academic year.

B. Descendants of members of the Harvard College Class of 1889 who are in need of assistance.

C. Residents of the State of Vermont, preference to be given to those most worthy of assistance.

D. Students worthy of assistance and of high scholarship, preference to be given to (1) Descendants of graduates of Harvard College, and (2) Those "of that old Anglo-Saxon stock which has gone forth from New England into all parts of the United States and has been the means of giving strength and stability and character to our government."

Or, any balance of income remaining after the award of scholarships as specified in paragraphs A, B and C above may be used for fellowships for Harvard graduates of high scholarship and of rare and unusual ability who are pursuing special work either at Harvard or at any American or foreign university or school.

*Dwight D. Eisenhower Scholarship Fund (1962). Gift of William A. Hinton in memory of Augustus and Maria Hinton, "the income to be used to assist graduate students in any department by way of scholarship grants, prizes for scholarly treatises or other achievements, or otherwise."

Joseph Eveleth Bequest (1896). For needy and worthy students in any department of the University.

Bradley Fisk Scholarship (1963). Gift in memory of Bradley Fisk, the income to be used "to provide one or more scholarships or other forms of financial aid to students in Harvard University."

*Thomas Hooker Flint Memorial Scholarship (1957). Established by the friends and family of Thomas Hooker Flint, Harvard College Class of 1958, who died in 1957 in a climbing accident on Mount Madison, in the White Mountains, New Hampshire. The scholarship may be awarded either to students in Harvard College or Harvard Medical School, with preference for graduates of the Belmont Hill School. Thomas Flint was born in Concord, Mass., April 22, 1936, attended Belmont Hill School, and entered Harvard College in the Class of 1958 as an Honorary National Scholar, and hoped to attend Harvard Medical School. The scholarship is established in the conviction that those who benefit from it will fulfill the promise of his short life, as expressed in the closing words of a prayer known to have been Thomas Flint's guide in life: "Help us to make the life of our youth as lovely as the world in which it lives; the brotherliness of humanity equal to the beauty of nature."

*Francis Lee Friedman Fund (1962). Gift of the O-F Foundation, Inc., the income to be used "for scholarships in Physics for undergraduate or graduate students." One third of the income is to be used for scholarships to undergraduates and two-thirds of the income is to be used for scholarships in the Graduate School of Arts and Sciences. Awards are made upon the recommendation of the Chairman of the Physics Department and not upon application.

Gage Scholarship (1948). Bequest of Homer Gage, A.B. 1882, M.D. 1887. In memory of Thomas H. Gage, M.D. 1852, Homer Gage, 1882, Thomas H. Gage, Jr., 1886, and Homer Gage, Jr., 1918. For students registered in any department of the University.

*Jean Gaillard Memorial Fellowship (1946). Established in memory of Jean Gaillard, a student of the École Centrale des Arts et Manufactures in Paris, who served as an Aspirant in the French Air Forces, was arrested by the German Gestapo, and died in the German concentration camp at Ravensbrueck April 16, 1945, a victim of Nazi inhumanity. For French youths for

study in any department of Harvard University or of the Massachusetts Institute of Technology. The incumbents from year to year are to be nominated by the Board of Directors of the École Centrale des Arts et Manufactures in Paris.

*Joseph Ernest and Octavia Walton Goodbar Scholarship (1965). Residuary bequest of Octavia Walton Goodbar to establish a scholarship ". . . for needy students of high scholastic standing and good moral qualities at Harvard and/or Radcliffe College."

John Tyler Hassam Memorial Scholarship (1941). Bequest of Eleanor Hassam in memory of her father, John Tyler Hassam, A.B. 1863. For students registered in any department of the University.

*Vinton Hayes Fund (1967). Residuary bequest of Hammond Vinton Hayes. "The principal to be held and the income to be devoted to the establishment . . . of a fellowship or fellowships for advanced research work and towards the expenses involved in the original research of the fellow or fellows working under these funds, preference being given to original research in the field of communication." A similar fund was established at the Massachusetts Institute of Technology.

Nathan Hayward Memorial Scholarship Fund (1956). Gift of Anna S. (Mrs. Nathan) Hayward in memory of her husband. For Nathan Hayward Scholarships or aid to students in any department of the University.

*Caroline Cady Hewey Fund (1965). Residuary bequest of Caroline Cady Hewey ". . . for the purpose of establishing a scholarship in my name for the purpose of educating and fitting students who propose to engage in the Diplomatic Service of the United States."

*Charles W. Holtzer Fellowships (1929). Bequest of Charles W. Holtzer. For young men of German birth who have received their preliminary education in German institutions of learning, to study in any department of the University. Preference is given

to students in Germany at the time of application. Students in Germany may apply either through the Deutscher Akademischer Austauschdienst, Nassestrasse 11, Bonn, or the Institute of International Education, 800 Second Avenue, New York, New York 10017, before December 1. Students enrolled at Harvard should apply through their Schools. Documentary proof of German birth and education required.

Edward William Hooper Memorial (1905). The gift of friends of Edward W. Hooper, A.B. 1859, LL.B. 1861. For one or more fellowships in any department of the University.

Charles Lloyd Huff Scholarship Fund (1949). Residuary bequest of Anna Elizabeth (Mrs. Charles Lloyd) Huff, in memory of Charles Lloyd Huff, A.B. 1913. Income assigned to the College Admission and Scholarship Committee.

*Sinclair Kennedy Fund (1948). Gift of Mrs. Rae B. Kennedy in memory of her husband, Sinclair Kennedy, A.B. 1897, LL.B. 1906. For grants to students enrolled in any of the graduate departments of the University for travel and residence outside the United States. "This fund to provide grants for travel is created in the belief that an opportunity to observe and to compare, to seek meanings and reasons, may enlarge the understanding of the traveller and, through him, be of general value." Not open to competition by undergraduates, including graduating seniors, in the College. Recommendations for Kennedy Fellowships are made on behalf of students by the Deans or Chairmen of the Departments in which the student is registered. In addition, at least two letters of recommendation from the student's instructors, and a somewhat detailed statement of purpose written by the candidate, must be submitted on his behalf. All material is then forwarded to the General Scholarship Committee Office, 906 Holyoke Center, Cambridge, before December 1.

Arthur Edwin Kennelly Memorial Fund (1964). Bequest of Reginald Grice Kennelly in memory of his father, Arthur

Edwin Kennelly. For students in any department of the University, but preferably for undergraduates.

*Frank Knox Memorial (1946). Gift of Annie Reed Knox in memory of her husband, Col. Frank Knox, LL.D. (Hon.) 1942, Secretary of the Navy, 1940–44. "It is my hope that this fund . . . will play a part in an integrated program of exchange fellowships throughout the world. The Frank Knox Memorial is established because of the firm belief of my dear husband, a conviction which I share, that cooperation between the British Commonwealth and the United States of America, based upon an informed and understanding contact of the peoples of these two great countries, is an essential to international peace." Candidates shall be selected on the basis of future promise of leadership, strength of character, keen mind, a balanced judgment and a devotion to the democratic ideal. Fellowships are to be awarded annually to:

1. Students coming from the following British Commonwealth countries: the United Kingdom, Australia, New Zealand, and Canada. Students should apply through their university before November 1 of the year preceding award.
2. Recent graduates of Harvard College, or students who have completed at least one year of study in one of the Harvard graduate schools, for study in any one of the countries listed above.

Procedure for graduate students for travel grants only. Recommendations for Knox Fellowships are made on behalf of students by the Deans or Chairmen of the Departments in which the student is registered. In addition, at least two letters of recommendation from the student's instructors, and a somewhat detailed statement of purpose written by the candidate, must be submitted on his behalf. All material is then forwarded to the General Scholarship Committee Office, 906 Holyoke Center, Cambridge, before December 1.

Procedure for College students (graduating seniors only) for

travel grants only. Recommendations for Knox Fellowships are made on behalf of students by their Department Chairmen and House Masters or Senior Tutors. Application material is due March 1 in the Office of the Dean of the College, 4 University Hall, Cambridge. Nominees are selected by informal interviewing committees.

*Henry L. F. Kreger Memorial Scholarship (1966). "The income of the fund shall be used each year for a scholarship or scholarships in Harvard College or Harvard Law School to be awarded by the President and Fellows of Harvard College in accordance with the University procedures as established from time to time and upon the nomination of the Harvard Club of Cleveland, Ohio. In addition to the scholarships, the income may be used, upon the recommendation of the President and Fellows of Harvard College and with the approval of the Harvard Club of Cleveland, Ohio, for loans or other forms of financial aid to students who may, but not necessarily, be holders of this scholarship."

*Arthur Lehman Fund (1936). Gift of Adele L. (Mrs. Arthur) Lehman and her daughters and sons-in-law, Mr. and Mrs. Richard J. Bernhard, Mr. and Mrs. Benjamin J. Buttenwieser and Mr. and Mrs. John L. Loeb, in memory of Arthur Lehman, A.B. 1894. For Arthur Lehman Fellowships to be awarded along the general lines of the Harvard National Scholarship Plan. For students of exceptional merit and promise in the graduate and professional schools only of the University, preference to be given to the following: Graduate School of Arts and Sciences, Graduate School of Design, Graduate School of Education, Medical School, Graduate School of Public Administration.

Horace Louis Leiter Memorial Scholarship (1955). Bequest of Marietta D. Leiter in memory of her husband, Dr. Horace Louis Leiter, A.B. 1899. For deserving students in any department of the University.

George Vasmer Leverett Scholarship (1958). Residuary be-

quest of George Vasmer Leverett of the Class of 1867. To "establish new scholarships or fellowships."

*Lincoln Scholarship (1876). Residuary bequest of Miss Levina Hoar. Preference for needy and worthy students from Lincoln, Mass. If there are no such applicants, the income is assigned to the College Admission and Scholarship Committee for award to undergraduates.

Charles R. Lowell and Anna L. Lowell Scholarship (1949). Residuary bequest of Anna L. (Mrs. Henry E.) Woodbury for the establishment of two scholarships, to be known as "The Charles R. Lowell and Anna L. Lowell Scholarship" and "The James J. Lowell and Anna L. Woodbury Scholarship" for "worthy, deserving and indigent young men who may be shown to be unable to pay their tuition." Available for award in any department of the University. Income assigned to the College Admission and Scholarship Committee.

James J. Lowell and Anna L. Woodbury Scholarship (1949). Residuary bequest of Anna L. (Mrs. Henry E.) Woodbury, *see above.* Income assigned to the College Admission and Scholarship Committee.

Frances E. Markoe Residuary Bequest (1944). Residuary bequest of Frances E. (Mrs. Harry) Markoe for the establishment of scholarships for students in any department of the University.

*Alwin M. Pappenheimer '99 Fund (1957). Bequest of Beatrice L. (Mrs. Alwin M.) Pappenheimer, in memory of her husband; "the income therefrom to be used for any kind of financial assistance, whether for tuition, books, necessary maintenance and support or otherwise, to graduate students in the College or in any graduate school of the University, suggesting, but not binding the President and Fellows of Harvard College hereby, that the said income be preferably used for the benefit of such graduate students in the fields of medicine or music." The income is allocated equally between the Medical School and Graduate School of Arts

and Sciences. Awards made by the scholarship committees of those schools.

*John Parker Bequest (1873). Bequest of John Parker for fellowships to further the scientific education either abroad or in the United States (including Harvard University) of exceptionally talented graduate students devoting themselves to the study of one of the natural sciences. Not open to competition by undergraduates, including graduating seniors, in the College. Candidates from the following areas are considered: Divisions of Engineering and Applied Physics (if candidate's field is concerned with a natural science), Geological Sciences and Medical Sciences; Departments of Astronomy, Biology, Chemistry and Physics. Recommendations for Parker Fellowships are made on behalf of students by the Chairmen of the Divisions and Departments listed above. In addition, at least two letters of recommendation from the student's instructors, and a somewhat detailed statement of purpose written by the candidate, must be submitted on his behalf. All material is then forwarded to the General Scholarship Committee Office, 906 Holyoke Center, Cambridge, before January 10.

*Frederick E. Parlin Fund (1928). Bequest of Albert Norton Parlin. For needy and worthy students in any department of the University, preference to be given to natives of Malden or Everett, Mass. Evidence that applicant is a native of either Malden or Everett should accompany application of student seeking to establish preferential claim.

*William Pennoyer Bequest (1670). Bequest of William Pennoyer of England, for two fellows and two scholars; one preferably to be a descendant of Robert Pennoyer (a brother of William) and the other . . . [from] . . . New Haven [Colony]. Preference to be given to undergraduate descendants. Pennoyer descendants in the graduate schools may apply for the Pennoyer Scholarship by filing such application directly with the College Admission and Scholarship Committee. Certified genealogical records required to establish claim.

*Aristides Evangelus Phoutrides Memorial (1925). Gift of friends of Aristides Evangelus Phoutrides, A.B. 1911, Ph.D. 1915, to provide a scholarship in his memory for a student of Greek birth or of Greek parentage in any department of the University. Documentary evidence of Greek birth or parentage required of applicants.

*Princeton Fellowship (1910). Gift of Cleveland H. Dodge. To be awarded to a graduate of Princeton University, for his first year of study only, in one of the graduate departments of Harvard University.

*Leon W. Redpath Scholarship (1938). Bequest of Eliza Allen (Mrs. Ellis W.) Redpath in memory of her son Leon W. Redpath, A.B. 1898. For deserving students from the State of Ohio, registered in any department of the University, with preference to residents of Stark and Tuscarawas Counties.

*Franklin Reynolds Fund (1925). Residuary bequest of John F. Reynolds. For students in any department of Harvard University and Radcliffe College who are natives of Marblehead, Mass. Application should be accompanied by evidence that applicant is a native of Marblehead.

*James A. Rumrill Scholarships (1909). Gift of Anna Chapin (Mrs. James A.) Rumrill in memory of her husband James Augustus Rumrill, A.B. 1859, to establish three scholarships, two of which are available to graduates of secondary schools in Virginia, North and South Carolina, Florida, Georgia, Tennessee and Kentucky, for their first year of residence as undergraduates in Harvard College. The third scholarship is for a graduate of a college or university in any of the above-named states for study in his first year of residence in any graduate department of Harvard University. These scholarships are not renewable. In the absence of properly qualified candidates from the above-named states, the scholarships may be thrown into general competition, as two undergraduate scholarships and one graduate scholarship. Entering students in the College apply to the College Admission

and Scholarship Committee; entering students in the graduate departments apply through the Deans' Offices of their Schools.

Arthur Sachs Scholarship and Financial Aid Fund (1958). Gift of Arthur Sachs, Class of 1901, of Paris. "To make an enduring contribution to the relations between the two countries (the United States and France), by enabling an increasing number of the most deserving and able students in France to study in the United States." The income of this fund will "provide financial assistance for French students enrolled or to be enrolled" in Harvard University. Nominations are made by the Sachs Scholarship Committee in Paris. Inquiries from French students should be addressed to Cultural Attaché, United States Information Service, 4 avenue Gabriel, Paris 8 e, France.

*Peter Brooks Saltonstall '43 Memorial (1947). Gift of the family of Peter Brooks Saltonstall, 1943, who was killed in action on the Island of Guam on August 13, 1944. Peter B. Saltonstall was the son of Leverett Saltonstall, A.B. 1914, LL.B. 1917, United States Senator from Massachusetts and formerly Governor of Massachusetts. To further the education, the health and welfare of the peoples inhabiting the Hawaiian Islands and those islands west of Hawaii, including New Zealand, the Fiji Islands and Australia and also Japan, South Korea, Hong Kong, Formosa, the Philippine Islands, Vietnam, the East Indies, Indonesian Islands, Sumatra and Thailand. The first preference is that the income of this fund be used for scholarships or fellowships to assist worthy students from the above-named Pacific regions to gain a better education at Harvard University. The stipend shall be set to supplement the holder's income sufficiently to defray all his basic expenses of tuition, board and room, and in certain instances some travel allowance may be included. Students may apply directly to Harvard or through the Institute of International Education, 800 Second Avenue, New York, New York 10017, before December 1. Students already enrolled at Harvard should apply through their Schools.

In the event that no suitable candidate for the scholarship ap-

pears, the unexpended income and its accumulation shall be available for the support of research to better the living conditions or the general well-being of the peoples in the Pacific region described above, such research grants to be made by vote of the Corporation on the recommendation of the Dean of the Faculty of Arts and Sciences.

Charles N. Shaw Fund (1960). Bequest of Charles Nason Shaw. For the support of needy and deserving students in any department of the University.

*Frederick Sheldon Fund (1909). Residuary bequest of Amey Richmond (Mrs. Frederick) Sheldon, in memory of her husband. The income of this Fund is "to be applied . . . to the further education of students of promise and standing in the University by providing them with facilities for further education by travel after graduation or by establishing travelling scholarships."

Every holder of a Sheldon Fellowship, or Sheldon Prize Fellowship, must be a member of the University at the time of his appointment and must hold a Harvard degree, or be a candidate for a degree in June of the year of appointment.

Procedure for graduate students. Recommendations for Sheldon Fellowships are made on behalf of students by the Deans or Chairmen of the Departments in which the student is registered. In addition, at least two letters of recommendation from the student's instructors, and a somewhat detailed statement of purpose written by the candidate, must be submitted on his behalf. All material is then forwarded to the General Scholarship Committee Office, 906 Holyoke Center, Cambridge, Massachusetts 02138, before December 1. Holders may enroll at universities in this country — outside Harvard University — or abroad, for purposes of formal study or research, or they may engage in travel, or they may combine travel and study.

Procedure for College students (graduating seniors only). Recommendations for Sheldon Prize Fellowships are made *on behalf* of students by their Department Chairmen and House

Masters or Senior Tutors. Holders are expected to engage in travel rather than intensive research and they may not enroll in foreign universities for formal study. Application material is due *March 1* in the Office of the Dean of the College, Room 4, University Hall. Nominees are selected by informal interviewing committees.

*Ernest Frederick Slater Scholarship (1955). Bequest of Ernest F. Slater. The income to be awarded as scholarships in any department of the University to deserving (financially or otherwise) young men who are residents of (a) the City of Orangeburg, South Carolina; (b) the State of South Carolina; preference to be given to descendants by birth or adoption of Edward Frederick Slater, father of the donor, regardless of their residence. Not open to students in their first year at the University.

*Charles H. Smith Bequest (1947). Residuary bequest of Charles H. Smith. For awards to students in any department of the University according to the following order of preference:

1. a. Graduates of public high schools in Providence, Rhode Island, who are of scholarship rank.
   b. Graduates of public high schools in Providence, Rhode Island, who are below scholarship rank but who are considered eligible for financial aid.
2. Graduates of other (non-public) secondary schools in Providence, Rhode Island, who are of scholarship rank.
3. Any residents of Rhode Island not indicated above who are of scholarship rank.

Charles Harold Stanton Scholarship (1963). Bequest of Katharine Stanton "the income only to be used to provide a scholarship in memory of my nephew."

*William Stoughton Bequest (1701). Bequest of Lieutenant Governor William Stoughton, A.B. 1650. For awards to students in any department of the University according to the following order of preference: (a) Residents of Dorchester or Mattapan,

Mass.; (b) Residents of Milton, Mass.; (c) Any needy and deserving students.

John E. Thayer Scholarships (1857). Bequest of John E. Thayer, the income to be paid "to the ten most meritorious scholars in Harvard University in Cambridge every year . . . the income shall only be paid to such meritorious scholars as who may actually need the same."

*Augustus Clifford Tower Fellowship Fund (1927). Gift of Louise G. (Mrs. Augustus Clifford) Tower for two fellowships to be awarded annually to:

1. A graduate of Harvard College, who may be either a graduating senior or a student enrolled in one of the graduate departments of the University, for study in a French university, preference to be given to a student of Anglo-Saxon descent. Graduating seniors should consult their Department Chairmen, House Masters, or Senior Tutors with regard to the application procedure. Graduate students should consult their Deans or Department Chairmen. Nomination, on the basis of application material and interview, is made by a special selection committee to the Committee on General Scholarships.
2. A French student for study in any graduate department of Harvard University. French students should apply through the Directeur, École Normale Supérieure, 45 rue d'Ulm, Paris 5e, France, early in January.

In addition to the above fellowships, a sum from the Tower Fund is set aside annually for a travel grant to either a graduating senior or a student enrolled in one of the graduate departments of the University, who is nominated by a special selection committee to attend the École Normale Supérieure in Paris, on a fellowship provided by the French Government. Candidates should be United States citizens. For application procedure see paragraph 1 above.

Joseph T. Tower, Jr. and Mary T. Tower Memorial Fund (1966). Residuary bequest of Maria B. Tower . . . the income

of said fund to be used for scholarships at Harvard University. "It is my desire that the amounts and terms of such scholarships shall be such as to attract applicants of outstanding character and ability and that in the award of such scholarships (according to such method as shall be deemed appropriate), each applicant's character, capabilities, personality and qualifications for leadership shall be considered to be of special importance."

University General Scholarship Fund (1951). Established by the President and Fellows of Harvard College. For scholarships to students in any School or department of Harvard University.

*Thomas E. Upham Class of 1868 Fund (1939). Bequest of Marcella B. Upham. May be granted annually to worthy graduates of Harvard College in any department of the University who are "preparing to serve our country in public offices of trust and responsibility in the gift of the people, students of American parentage descended from the early settlers to be chosen in preference to others, provided they are equally worthy of assistance."

Variell Scholarship (1961). Bequest of Katharine S. Variell in memory of Montfort Schley Variell, the income to be used for music students particularly interested in the piano. Awards are made upon the recommendation of the Chairman of the Music Department and not upon application.

*Anna Vaughn Foundation (1935). Residuary bequest of John Vaughn, A.B. 1879. For "meritorious students of Harvard University who are pursuing studies in any biological science."

Emanuel L. Verveer Bequest (1963). Bequest of Emanuel L. Verveer, S.B. 1898, "the income only to be used to aid financially deserving students, irrespective of race, creed or color."

*Helen E. Vickery Scholarship Fund (1966). Residuary bequest of Helen E. Vickery to establish a scholarship fund "to assist worthy students, with a preference to be given to students from Fitchburg, Massachusetts."

Sarah L. Viehmann Scholarship (1936). Gift of Henry Bluestone, A.B. 1906, in memory of his mother, Sarah L. Viehmann. For deserving students in the College or graduate departments of the University.

The Benjamin Weaver Fund (1961). Residuary bequest of Wealthy M. Weaver in memory of her son Benjamin Weaver, A.B. 1889, the income to be used for scholarships to students in any department of the University.

*Jens Aubrey Westengard Fund (1954). Bequest of Rebecca Aubrey Westengard. "The income is to be applied . . . to the further education of students of promise and standing in any department of the University by providing them with facilities for further education in Europe, Britain, or South America, by travel or study, or to the further education of students of promise and standing in any of those countries, by providing them with facilities for further education by travel and study in this country, preferably by study in some department of Harvard University." Students enrolled in, or expecting to enroll in, the Law School should ordinarily apply for the Jens Iverson Westengard Fund administered by that School.

James K. Whittemore Fund (1963). Residuary Bequest of Francis Lee Whittemore "the income only is to be used to provide one or more scholarships in Mathematics for undergraduates in Harvard College and students in the Graduate School of Arts and Sciences." One third of the income is to be used for scholarships to undergraduates and two thirds of the income is to be used for scholarships in the Graduate School of Arts and Sciences. Awards are made upon recommendation of the Chairman of the Mathematics Department and not upon application.

*1902 World War Memorial Scholarship (1923). Gift of the Class of 1902 in memory of their classmates, André Chéronnet-Champollion, Edward Ball Cole and Elbert Walker Shirk, and to be awarded by preference to: (1) deserving sons of 1902 men killed in World War I; (2) deserving descendants of members of

the Class of 1902. Open to students in any department of the University, with preference to undergraduates. If no awards are made to preferential candidates, the income shall be assigned to the College Admission and Scholarship Committee.

*Jeffries Wyman Scholarships (1924). Bequest of Mary Wyman Davis in the name of Susan Wyman and Mary Wyman Davis. For one or more students in any graduate department of the University "who may have given promise of success in some branch of Biological Research," preference to be given to students of anatomy. Nominations are made before March 1 to the Committee on General Scholarships by a committee consisting of the Hersey Professor of Anatomy, the James Stillman Professor of Comparative Anatomy and the Director of the Museum of Comparative Zoölogy.

LOAN FUNDS

Loan funds are available for students in need of financial assistance and are usually made to meet term bills; cash is rarely provided. Short-term loans, for a period of less than six months, are available under special circumstances. In emergencies, loans may be made at any time.

Loans are available for students from Medical School funds as well as from funds allocated to the School under the Health Professions Educational Assistance Act. To provide for simplicity of administration, the interest and terms of repayment are the same on all loans regardless of source.

Loans shall bear interest at the "going Federal rate" in effect at the time the first loan was obtained. For the fiscal year, 1965–66, the rate was set at 4¼ per cent; for the fiscal year 1966–67 the rate was 4⅝ per cent; for the fiscal year 1967–68 the rate has been set at 4¾ per cent. Any subsequent change in the rate will be announced annually on or before July 1.

The principal and interest are to be repaid over the ten year period that begins three years after graduation from the School.

The period of payment may be deferred for three years of military service and/or three years in the Peace Corps or if the borrower becomes a member of the Public Health Service. Please note, however, that the beginning of the ten year repayment period is not extended when such service occurs during the three year grace period.

Repayment of loans may be made in equal or graduated installments with the right of the borrower to accelerate payments.

If the student borrower leaves the School prior to graduation, the interest on his loan shall begin to accrue on the date of his separation from the School.

Applications for loans should be made to the Chairman of the Committee on Financial Aid.

Medical School

Frank W. and Carl S. Adams Memorial Loan Fund (1955). Established by the Charles E. and Caroline J. Adams Trust as a revolving loan fund.

Dexter Fund (1963). An anonymous gift to provide loans for any qualified student engaged in studies under the academic jurisdiction of the Faculty of Medicine.

David L. Edsall Revolving Loan Fund (1928). Dr. Frederick C. Shattuck established this fund by gift of $100,000 to be used as a revolving loan fund.

Charles William Eliot Loan Fund (1924). Given anonymously in honor of President Eliot. Principal and interest to be used for loans to students in the Medical School.

Harvard Medical School Loan (1954).

Harvard War Loan (1920).

Health Professions Student Loan Fund. Department of Health, Education and Welfare (Public Health Service) under the Health Professions Educational Assistance Act.

Harriet P. Keith Loan (1921).

George B. and Louise Kerper Fund (1956). Established by Edmund Kerper as a revolving loan fund in memory of George B. and Louise Kerper.

George W. Merck Memorial Fund (1959). Established by the Merck Company Foundation as a revolving loan fund to assist fourth year students in financing their internships.

Francis I. Proctor Aid Fund (1942).

James Henry Rand Fund (1962). Public Health Foundation for Cancer and Blood Pressure Research, Inc. To provide scholarships, loans, or other kinds of beneficial aid for any student who has received his M.D. degree at the Harvard Medical School.

School of Dental Medicine

Loan funds are available to all students who show suitable need and whose other financial obligations do not make it improbable that a loan will be repaid. Terms of loans are identical with terms for Medical School loans.

American Dental Association — Fund for Dental Education Dental Student Loan Fund (1962). Gift of the Fund for Dental Education, Inc.

The Christian Soldier Fund (1925). Established by Miss Caroline F. Anderson for promising dental students. The loan carries no interest but the recipient must sign a note obligating him to repay the loan not later than five years from the date of the note.

Dental Alumni Loan Fund (1927). Established and maintained by the Dental Alumni Association for financial aid to worthy students.

Lucinda Davis Fernald Fund (1936). A small fund, the gift of Adelbert Fernald, D.M.D. 1896, to be loaned to deserving New England-born students of good character.

Health Professions Student Loan Fund. Department of Health, Education and Welfare (Public Health Service) under the Health Professions Educational Assistance Act.

International College of Dentists Student Loan Fund (1962). The gift of the International College of Dentists for a revolving loan fund available only to senior students.

Robert T. Moffatt Fund (1925). A small fund from various contributors in memory of Robert T. Moffatt, D.M.D. 1895, for the benefit of needy and deserving students.

School of Dental Medicine Revolving Loan Fund (1952). Recognizing the need for student loan money in the School, the President and Fellows of Harvard College authorized an appropriation to establish this fund.

School of Dental Medicine Loan Fund (1953). An appropriation from the School's funds to establish additional loan money for needy students.

Beneficiary and Loan Funds Available in Other Departments of the University as well as in the Medical School and School of Dental Medicine

Beneficiary Funds

*Charles William Eliot Fund (1926). Established by the alumni in honor of Charles William Eliot on the occasion of Mr. Eliot's resignation as President and in recognition of his forty years of service. The income is to be divided between (a) grants of aid to descendants in the direct line of Mr. Eliot who need financial assistance and who are enrolled in any department of the University or in Radcliffe College, and (b) the support of instruction and research in Landscape Architecture.

*Calvin and Lucy Ellis Aid (1899). Bequest of Calvin Ellis, A.B. 1846, M.D. 1849, supplemented by a residuary bequest under the will of his sister, Miss Lucy Ellis. To pay the fees of tui-

tion and instruction, the cost of text-books, room-rent and reasonable board, of such descendants of David Ellis and Beulah Newell, formerly of Dedham, Mass. and John Ellis and Hannah Ellis, formerly of Walpole, Mass., as may be students in any department of Harvard University. Birth certificate and proof of descent from Ellis family required.

Harrison-Darling-Jenks Memorial Fund (1935). Bequest of Miss Laura Darling Jenks. For aiding students in attaining an education at Harvard University. Income assigned to the College Admission and Scholarship Committee.

Loan Funds

The following Loan Funds are to be used for students in any department of the University. Students apply through their own Deans. Loans are made according to the terms ordinarily applied by the individual Schools. Applications may be obtained from the several Deans' Offices or from the General Scholarship Office, 906 Holyoke Center, Cambridge.

*John W. Appel Loan Fund (1919). Restricted to descendants of John W. Appel of Lancaster, Pennsylvania, or their appointees.

Frank Gaylord Cook Loan Fund (1951).

*Claire Morton Prince Hanks Student Fund (1966). Preference to students specializing or concentrating in engineering, astronomy, applied mathematics or physics.

*David L. Krupsaw Revolving Loan Fund (1960). Preference to students from Washington, D.C.

*The Harvard Club of Washington, D.C., Loan Fund (1957). Preference for students resident in the Washington, D.C. area.

Morris Morgenstern Student Loan Fund (1959).

*New Century Club of Boston Loan Fund (1926). Preferably for men pursuing courses of study in Hebraic literature, culture and philosophy.

Jessie Smith Noyes Foundation, Inc. Loan Fund (1960). To establish a revolving loan fund.

Nelson Robinson, Jr. Loan Fund (1941).

James G. Rodger Loan Fund (1883).

Williams Fund (1942).

FELLOWSHIPS

The Fellowship Funds of the Harvard Medical School are, except where otherwise noted, administered by a Standing Committee of the Faculty. Applications for support from these funds should be sent to the Dean's Office.

Edward Hickling Bradford (1918). Anonymous. To be used for medical research or instruction separately or in connection with any other foundation, in such manner as may be prescribed.

Bullard (1891). William Story Bullard, in memory of three physicians "distinguished for their honorable personal character and their professional services in this community":

George Cheyne Shattuck Memorial

John Ware Memorial

Charles Eliot Ware Memorial

Any one or all of these fellowships may be paid to any student or member of the medical profession appointed to make such original investigations in Medical Science as will be most useful to the profession and to the community. The results of these investigations shall not, however, be published as a research performed under the grant of a Bullard Fellowship, unless the work shall have received the approval of the Committee.

Holders of the fellowships must do throughout the academic year the equivalent of at least ten hours' work a week and make a report thereon.

Arthur Tracy Cabot (1913). Dr. and Mrs. Frederick Cheever Shattuck. In memory of Arthur Tracy Cabot, A.B. 1872, M.D. 1876. For students of surgery. Ordinarily the incumbent may not engage in active practice, but is to devote himself to the advancement of surgery in the United States or elsewhere. Nomination to this fellowship is by preference to be made by the Moseley Professor of Surgery.

Walter Bradford Cannon (1945). Mr. Joseph F. and Mrs. Clara Ford. A fellowship in Physiology.

Henry A. and Camillus Christian (1956). Henry A. Christian. To be appointed by the Hersey Professor of the Theory and Practice of Physic. The fellowship shall be held preferably by the same individual for a period of five years. The greater part of his time shall be devoted to medical investigation, preferably in the field of clinical medicine.

Harold C. Ernst Memorial Fund (1938). Mrs. Ellen L. Ernst. A scholarship or fellowship in the Department of Bacteriology.

Charles Follen Folsom (1908). Founded by more than sixty persons in memory of Charles Follen Folsom, A.B. 1862, M.D. 1870. A Teaching Fellowship in Hygiene or in Mental and Nervous Diseases. For the present assigned to the Department of Neuropathology-Neurology.

Louis W. Gilbert (1943). S. Louise Gilbert. Income to be used for the study of chronic diseases.

Samuel Jordan Graham (1961). E. Norma P. Graham. Fellowship in surgery.

Judge and Mrs. Samuel Jordan Graham Memorial (1961). E. Norma P. Graham. Postgraduate study or research.

Charles Dustin Hunking, M.D. (1948). Sarah S. H. Cheney, in memory of her brother, Charles Dustin Hunking, M.D., a member of the Class of 1871 of Harvard University and of the Class of 1876 of Harvard Medical School. To enable a graduate of

Harvard Medical School, who is also a native of Haverhill, Mass., to do medical research.

Louis E. Kirstein (1937). Friends of Louis E. Kirstein. For the promotion of scientific medical education.

John R. Kissinger (1911). Harold C. Ernst. For a fellowship or salary of an individual engaged in the investigation of the causation of infectious diseases, preferably in the direction of tropical medicine. Recommendation to this fellowship is made by the Professor of Bacteriology in the Medical School.

William O. Moseley, Jr., Travelling Fellowships (1912). The bequest of Julia M. Moseley makes available fellowship funds to graduates of the Harvard Medical School for postdoctoral study in Europe. The Committee, anxious that these fellowships be outstanding awards, has voted that the amounts awarded for stipend and travelling expenses will be determined by the specific needs of the individual. In considering candidates for the Moseley Travelling Fellowships, the Committee will give preference to those Harvard Medical School graduates who (1) have already demonstrated their ability to make original contributions to knowledge, (2) have planned a program of study which in the Committee's opinion will contribute significantly to their development as teachers and scholars, and (3) clearly plan to devote themselves to careers in academic medicine and the medical sciences. Individuals who have already attained Faculty rank at Harvard or elsewhere will not ordinarily be considered eligible for these awards.

Application forms may be obtained from, and completed applications should be sent to: Secretary, Committee on Fellowships in the Medical School, Harvard Medical School, 25 Shattuck Street Boston, Massachusetts 02115. The Committee may request candidates to present themselves for personal interviews.

Francis Weld Peabody Memorial (1929). To be awarded on the recommendation of the Dean and full professors of Medicine in charge of the clinics of the Boston City Hospital, the

Massachusetts General Hospital, and the Peter Bent Brigham Hospital, to properly qualified graduates of medical schools to enable them to devote further time to intensive clinical and laboratory studies.

Jeffrey Richardson (1933). William Lambert Richardson, A.B. 1864, M.D. 1867. To be awarded each year to some deserving student, upon his graduation from the Harvard Medical School, who desires to continue his studies either here or abroad.

Henry P. Walcott (1910). Dr. Frederick Cheever Shattuck. For a Fellow in Clinical Medicine appointed on nomination by the Jackson Professor of Clinical Medicine. The recipient shall not engage in private practice but must devote his time to teaching and clinical research.

Ethel DuPont Warren (1967). For psychiatric training scholarships, the recipients to be selected by the Chairman of the Department of Psychiatry.

Whitman (1933). Mrs. Bernard C. Whitman, in memory of her husband Bernard C. Whitman, A.B. 1846, and of her son Crosby C. Whitman, A.B. 1886. Available for a graduate of Harvard Medical School pursuing the study of medicine or surgery at the École de Médecine de Paris.

Wyman Whittemore (1963). Francis Lee Whittemore. Scholarships in surgery.

William Hunter Workman (1925). William Hunter Workman, M.D. 1873. To enable one or more graduates of the Harvard Medical School to pursue postgraduate studies in medicine in this country or abroad. In exceptional cases, fourth year students will be eligible.

RESEARCH FUNDS

Application for support of investigations falling within the scope of any of the following research funds should be sent to the Chairman of the Committee or to the Dean.

Rear Admiral W. L. Capps Fund

In 1949 a bequest was received from Edna Ward Capps to be known as the Rear Admiral W. L. Capps Fund, the income from which, under certain circumstances, to be used broadly for the cure and treatment of persons afflicted with diabetes. George W. Thorn, M.D., is Chairman of the Committee administering the income from this fund.

Proctor Fund

A bequest of fifty thousand dollars by Ellen Osborne Proctor, for the purpose of promoting the study of chronic diseases, subsequently has been increased by an additional fifty thousand dollars from another member of the Proctor family. The income of this fund is to be devoted to investigations into the nature and treatment of chronic diseases and the care of persons afflicted with these diseases while in hospitals for such investigations. Arthur T. Hertig, M.D., is Chairman of the Committee administering the income from this fund.

William W. Wellington Fund

In 1925 a bequest was received from William H. Wellington to establish the "William W. Wellington Memorial Research Fund." The income of this fund is to be applied for research concerning the etiology and therapeutics of the diseases of man. Arthur T. Hertig, M.D., is Chairman of the Committee administering the income from this fund.

THE CANCER COMMISSION OF HARVARD UNIVERSITY

Under the will of the late Mrs. Caroline Brewer Croft a sum of money was received in 1899 for the investigation of the cause and treatment of cancer. Since that time other sums have been

contributed for cancer research and the Cancer Commission of Harvard University has been organized.

The Commission supports the Huntington Hospital beds, outpatient department, and cancer research laboratories at the Massachusetts General Hospital. It provides a service for pathological diagnosis of tumor tissue for the State of Massachusetts. This service was transferred in 1951 from the buildings of the Harvard Medical School to the Cancer Research Institute of the New England Deaconess Hospital. The service is carried on in part in a special laboratory at the Lemuel Shattuck Hospital, in part in laboratories at the Cancer Research Institute of the New England Deaconess Hospital.

The functions of the Cancer Commission are exercised by the Committee on Research and Development which is made up of the following members: Nathan Marsh Pusey, *Chairman*; Harvey Brooks, Robert Higgins Ebert, Franklin Lewis Ford, James Robbins Reynolds, Theodore Ryland Sizer, John Crayton Snyder, Lewis Gard Wiggins, Henry Coe Meadow, *Executive Secretary*.

PRIZES

Medical School

Isaac Adler (1934). Frida Adler. To be awarded once in three years for the best piece of original research within that period in the United States or Canada on any subject within the medical or allied sciences.

Borden Undergraduate Research Award. Awarded to a member of the graduating class who, during any year while enrolled in the School, has carried out undergraduate research having originality and thoroughness.

Harvard Medical Alumni Association Prize. To be awarded each year to the Permanent President of the Graduating Class. It has three purposes: to extend a greeting from the old Alumni

to the new, to accord respect to the graduating class by honoring its chosen leader, to select for honor a man with whom long and cordial association is confidently anticipated.

Henry Asbury Christian (1937). Dr. Samuel A. Levine. To be awarded annually on or about the seventeenth of February, which is Dr. Christian's birthday, to the student in the Fourth Year Class who has displayed diligence and notable scholarship in his studies and offers promise for the future.

Leon Reznick Memorial Prize (1958). To be awarded to a fourth year student who has shown excellence and accomplishment in research conducted during his period of study at the Harvard Medical School. Candidates for the award must submit a typewritten paper to the Dean's Office by April 1.

James Tolbert Shipley Prize (1952). Harriet S. Parker. Awarded as a prize for research carried out by a medical student, the results of which have been published or accepted for publication. Candidates for the award must submit papers to the Dean's Office by April 1.

Soma Weiss Award. Awarded each year at the Undergraduate Assembly (see page 95).

School of Dental Medicine

Harvard Dental Alumni Medals (1953). The Harvard Dental Alumni Association awards its gold and silver medals annually for all-around scholastic excellence.

Harvard Odontological Society (1949). The Harvard Odontological Society each year presents a Certificate of Merit to the best Senior Seminar Essayist of that year. This senior is selected by the Awards Committee of the School of Dental Medicine.

Dr. Grace Milliken (1950). An award given annually when practicable, but at least once in three years, for an outstanding essay on the general subject of dental health.

LECTURESHIPS

John Adams Lectureship on Dermatology. The income of the fund to be expended in support of one or more lectures in dermatology in any given academic year.

The Edward K. Dunham Lectures for the promotion of the medical sciences have been given annually since 1923 by eminent investigators and teachers in one of the branches of the medical sciences or of the basic sciences which contribute toward the advance of medical science in the broadest sense. The lectures are open to the Faculty and students of the Harvard Medical School and College and all other interested professional persons. The lectures are given under the fund established for that purpose by Mary Dows Dunham in memory of her husband, Dr. Edward K. Dunham.

Laurence B. Ellis Lecture. Established by the students, associates, and friends of Dr. Ellis. To invite annually a visiting lecturer of distinction in the general field of cardiovascular physiology and disease to visit the Harvard Medical Unit at Boston City Hospital and to give a lecture during this visit to be open to the public.

The George W. Gay Lectures upon Medical Ethics are given annually at the Harvard Medical School. The fund for the establishment of these lectures was given in 1917 by Dr. George W. Gay.

Donald Macomber (1965). Established by Dr. Donald Macomber to provide lectures to undergraduate students in the Department of Obstetrics and Gynecology on subjects of sexuality in the field of human reproduction and reproductive biology, with particular emphasis on the social, psychological and marital aspects thereof.

The J. Howard Mueller Lectures are given annually at the Harvard Medical School. The fund for the establishment of

these lectures was established in 1958 to honor the late J. Howard Mueller, Charles Wilder Professor of Bacteriology and Immunology.

The Alpha Omega Lecturer is to be nominated each year by the Alpha Omega Alpha Society. The honorarium and expenses of the lectureship to be supported from the fund established by the Society in 1952.

The Hanns Sachs Lectures in the field of Freudian psychoanalysis are supported by a gift in memory of Dr. Sachs. One or more may be given in any year.

The Dr. Andrew Yeomans Lectureship Fund has been established by members of the Class of 1934 and the Class of 1935 and friends in memory of Dr. Yeomans. Lectures are to be given annually and the lecturer will be chosen from young clinicians in the fields of clinical research by a committee named by the donors.

THE UNDERGRADUATE ASSEMBLY

The Undergraduate Assembly, held late in the spring of each year under student auspices, provides an opportunity for students from all classes to present formally the results of their investigations to the students and Faculty of the Medical School. The Soma Weiss Award is made at this meeting.

GENERAL PLAN OF INSTRUCTION

On the following pages will be found a brief description of the plan of instruction for the four years of Medical School, followed by a statement of the general plan of instruction offered by each Department. A diagrammatic summary of the medical curriculum will be found on pages 102 and 103.

General Plan of the First Two Years

In general, during the first semester of each of the first two years, individual departments introduce selected material characteristic of their particular disciplines. In the second semester of each year, the departments collaborate in the presentation of a unified approach to various problems of human biology.

In the first year, the first semester is devoted to a study of histology, cytology and developmental anatomy, and to the fundamentals of physiology and biological chemistry. Gross human anatomy is presented in the second semester together with a course in neurosciences and an area of interdepartmental teaching dealing with the histology, physiology and biochemistry of the gastrointestinal tract and endocrine glands. Three additional courses complete the material of the first year. Voluntary clinics offered on Saturday mornings throughout the first year are intended to illustrate the application of the basic medical sciences to understanding of disease in man. In the second semester there is a brief series of lectures introducing certain aspects of normal psychological growth and development. The students also take a course either in basic biostatistics or more advanced biomathematics depending upon their previous preparation.

In the first semester of the second year, the Departments of Bacteriology, Pathology and Pharmacology offer courses in their respective disciplines. A number of correlated interdepartmental exercises are also included. The last portion of the semester is devoted to chemotherapy taught jointly by the Departments of Bacteriology and Pharmacology.

During the second semester a correlated program in pathologic physiology is given. Mechanisms of disease are presented in a unified course by members of the Departments of Medicine, Neurology, Obstetrics and Gynecology, Pathology, Pediatrics, Pharmacology, Preventive Medicine, Psychiatry, Radiology, Surgery, and Tropical Public Health. In addition, practical instruction in the taking of case histories and physical examinations is given on

the wards and in the outpatient departments of the hospitals at which there are Harvard teaching units.

During the second year, in addition to instruction in certain aspects of genetics, a series of lectures develops further concepts of individual psychologic functioning. Emphasis now shifts to the nature and genesis of abnormal psychological mechanisms which result from both social and physical factors and are manifested in symptoms and behavioral disturbances.

General Plan of the Third and Fourth Years

The instruction in the third and fourth years is carried on at the teaching hospitals affiliated with the Medical School. It is designed to teach the student to apply the principles of normal and abnormal human biology, acquired in the first two years, to the diagnosis and treatment of disease.

The program of instruction is divided into three parts which form a continuum extending from September of the third year to the end of May of the fourth year. Periods of vacation, the longest three weeks, are interspersed at intervals.

The first part consists of a three month course called the Introduction to the Clinic, the aim of which is to bring the student to a higher level of clinical competence than is possible to achieve in the second semester of the second year. Each student is assigned to one of four general hospital areas — Beth Israel Hospital, Boston City Hospital, Massachusetts General Hospital, and Peter Bent Brigham Hospital — for theoretical and practical instruction in the evaluation of patients. Time is approximately evenly divided between medicine, surgery, and the various medical specialities. This phase of the instruction is conducted six mornings and one afternoon each week in small groups on the wards and in the outpatient departments. Two other afternoons each week are devoted to a course in aseptic technique and special lectures and exercises covering a variety of topics.

The second part of the program, consisting entirely of clinical clerkships, is called the Principal Clinical Year. This year is

divided into four twelve-week periods as follows: one twelve-week period is devoted to Medicine; another to Surgery; one is divided equally between Pediatrics (six weeks) and Obstetrics and Gynecology (six weeks); while the fourth is divided into four years of instruction, is given over to elective programs. Neurology, Orthopedics, and the three specialities of Dermatology, Ophthalmology, and Otolaryngology.

The third and final part, comprising the last five months of the four years of instruction, is given over to elective programs. From the wide variety of elective courses and other instructional opportunities offered by the several departments of the Medical School, each student, with the aid of a faculty advisor, is expected to select a program of work which will allow him to explore some area of interest to him. Generally, elective courses are of two types: "block" courses, lasting one or more months, which presuppose that the student will devote the major portion of his time to the course, and "longitudinal" courses meeting for one to three hours, one to three times per week, for varying numbers of weeks. While ordinarily instruction during the elective period is confined to the Medical School and its affiliated hospitals, relevant courses in other parts of the University and at other institutions, in this country and abroad, may be included.

The Tutorial Program and Student Research

The Tutorial Program was established in 1923 to foster student interest and participation in research. In 1957 it was expanded to provide each entering student with a tutor for his first year. Some twenty-five Tutors in Medical Sciences are appointed annually to enable first year students to meet informally in groups of five with a tutor. These weekly meetings are intended to assist the student in organizing and correlating his knowledge and to point out the implications and applications of the knowledge of basic science gained in the formal courses to clinical medicine and to research. These are not intended to be review sessions or to prepare students for examinations in the formal courses, but to

develop better understanding of the medical sciences as a whole and of medicine as an art and profession. In addition the expanded Tutorial System provides an opportunity for each student during his first year to become well acquainted with some member of the Faculty to whom he may turn for advice in planning his medical career and in other matters.

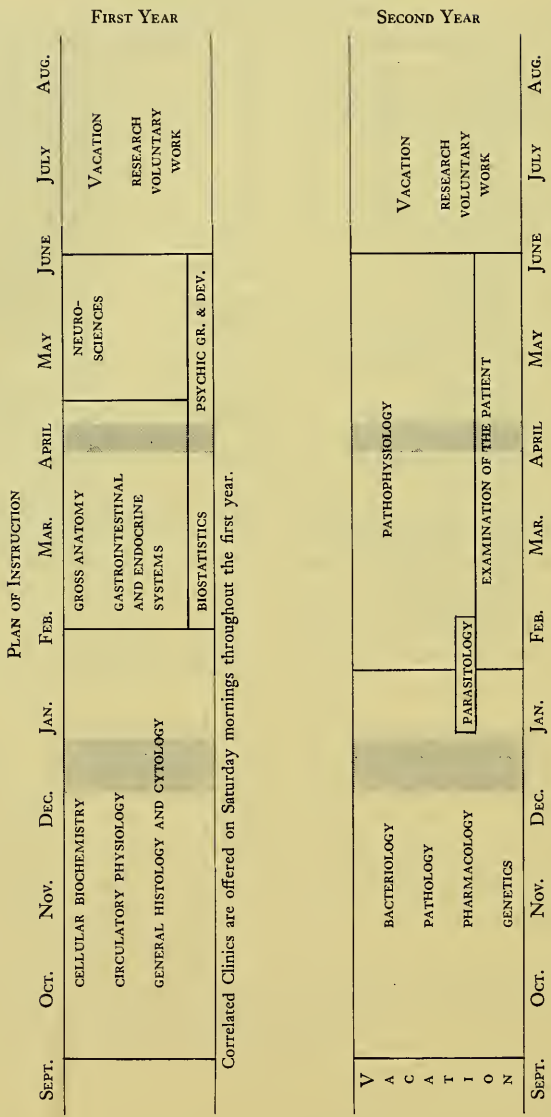
The Honors Tutorial Program of the second, third and fourth years is designed to aid students who wish to undertake original research in one of the medical sciences during their medical school careers and to provide informal courses and discussion groups in a variety of subjects not included in the formal curriculum. Students doing research, or planning to do research, are assigned to the appropriate Tutor for guidance. Each of these Tutors has special competence in one of the medical sciences and meets with students individually or in small groups to assist them in deciding on a field of research or in formulating a specific research problem. The Tutors may also organize seminars and symposia to review some aspect of the field of special interest. They also help the student by placing him with the member of the Faculty whose research interests are in his field and who is best suited to guide his research.

Students may devote free time during the school year and the summer months to research. Exceptional students also have the opportunity of taking a year's leave of absence to pursue a research problem. Such an opportunity is made available to enhance a student's preparation for an investigative career in medicine and in the medical sciences. The results of a student's research may be presented as a thesis at the end of the fourth year in support of his candidacy for the medical degree with Honors in a Special Field.

Fellowships are available for the financial support of student research both during the summer months and during a year's leave of absence for full time research.

Abbreviations used in the following pages:

B.I.H. = Beth Israel Hospital.
B.C.H. = Boston City Hospital.
B.H.W. (L-i. Div.) = Boston Hospital for Women (Lying-in Division).
B.H.W. (Pky. Div.) = Boston Hospital for Women (Parkway Division).
C.C.H. = Cambridge City Hospital.
C.H.M.C. = The Children's Hospital Medical Center.
C.M.C. = Children's Medical Center.
F.H.W. = Free Hospital for Women.
H.M.S. = Harvard Medical School.
L.I.H. = Long Island Hospital.
McL.H. = McLean Hospital.
M.E.E.I. = Massachusetts Eye and Ear Infirmary.
M.G.H. = Massachusetts General Hospital.
M.I.T. = Massachusetts Institute of Technology.
M.M.H.C. = Massachusetts Mental Health Center.
Mt.A.H. = Mount Auburn Hospital.
N.E.C.H. = New England Center Hospital.
N.E.D.H. = New England Deaconess Hospital.
P.B.B.H. = Peter Bent Brigham Hospital.
R.B.B.H. = Robert B. Brigham Hospital.
S.D.M. = School of Dental Medicine.
S.P.H. = School of Public Health.
W.R.V.A.H. = West Roxbury Veterans Administration Hospital.


Plan of Instruction
First Year
Second Year
Sept.
Oct.
Nov.
Dec.
Jan.
Feb.
Mar.
April
May
June
July
Aug.
Cellular Biochemistry
Circulatory Physiology
General Histology and Cytology
Gross Anatomy
Gastrointestinal and Endocrine Systems
Biostatistics
Neuro-sciences
Psychic Gr. & Dev.
Vacation
Research
Voluntary Work
Vacation
Research
Voluntary Work
Pathophysiology
Examination of the Patient
Parasitology
Bacteriology
Pathology
Pharmacology
Genetics
Vacation
Correlated Clinics are offered on Saturday mornings throughout the first year.

PLAN OF INSTRUCTION

Third and Fourth Years

Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.
Vacation	Introduction to the Clinic			Principal Clinical Year Medicine* (12 weeks)°		Vacation	Principal Clinical Year Surgery* (12 weeks)°		Principal Clinical Year Pediatrics* (6 weeks)° Obstetrics and Gynecology* (6 weeks)°		Vacation
Vacation	Principal Clinical Year Derm. Ophth. Otol.* (3 wks.)° Psych.* (3 wks.)° Neur.* (3 wks.)° Orth. Surg.* (3 wks.)°		Reading Period	Elective Period				Exams			
Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.

Recess.

* Order of subjects variable.

° One afternoon per week is devoted to whole class exercises which include Legal Medicine (13 sessions) and Preventive Medicine (34 sessions).

Division of Hours

FIRST YEAR

Gross Anatomy	229
General Histology and Cytology	135
Physiology	135
Cellular Biochemistry	150
Gastrointestinal and Endocrine Systems	145
Neurosciences	178
Correlation Clinics	64
Psychic Growth and Development	12
Biostatistics	21
Tutorial	36

SECOND YEAR

Bacteriology	168
Pathology (including Parasitology and Neuropathology)	350
Pharmacology	120
Pathologic Physiology †	538
Growth and Development:	
Genetics	15
Introduction to Psychopathology	28
Pediatrics	4
Obstetrics and Gynecology	18

THIRD AND FOURTH YEARS

Introduction to the Clinic (12 weeks)	
Medicine	121
Surgery	121
Specialties (including Pediatrics, Psychiatry, Neurology, Dermatology, Ophthalmology, Otolaryngology, Aseptic Technique)	121
Principal Clinical Year (48 weeks)	
*Medicine	480
*Surgery	480
*Obstetrics and Gynecology	240
Principal Clinical Year (con't)	
*Pediatrics	240
*Neurology	120
*Orthopedics	120
*Psychiatry	120
*Dermatology	40
*Ophthalmology	40
*Otolaryngology	40
Preventive Medicine	
Course	70
Survey	50
Legal Medicine	14
Elective Period (22 weeks)	946

† A multidepartmental integrated course which includes Examination of the Patient (Medicine and Surgery) and Laboratory Diagnosis.

* Clerkships.

ANNOUNCEMENT OF COURSES

Department of Anatomy

Don W. Fawcett, M.D., Hersey Professor of Anatomy, James Stillman Professor of Comparative Anatomy, Head of the Department, and Curator of the Warren Anatomical Museum (on sabbatical leave from February 1, 1968 through July 31, 1968).

Edward A. Edwards, M.D., Clinical Professor of Anatomy.

Sanford L. Palay, M.D., A.M. (hon.), Bullard Professor of Neuroanatomy.

Elizabeth D. Hay, M.D., A.M. (hon.), Louise Foote Pfeiffer Associate Professor of Embryology.

Susumu Ito, Ph.D., Associate Professor of Anatomy.

Charles P. Lyman, Ph.D., Associate Clinical Professor of Anatomy.

Jean-Paul Revel, Ph.D., Associate Professor of Anatomy.

S. James Adelstein, M.D., Ph.D., Assistant Professor of Anatomy (on leave from January 1, 1968 through June 30, 1968).

Jay B. Angevine, Jr., Ph.D., Assistant Professor of Anatomy (through July 31, 1967).

Donald K. Morest, M.D., Assistant Professor of Anatomy.

Willard D. Roth, Ph.D., Assistant Professor of Anatomy (resigned September 30, 1967).

George Szabo, Ph.D., Assistant Professor of Anatomy in the Department of Dermatology.

Richard E. Coggeshall, M.D., Associate in Anatomy.

David W. Hamilton, Ph.D., Associate in Anatomy.

Albert L. Jones, M.D., Associate in Anatomy.

Sergei P. Sorokin, M.D., Associate in Anatomy, and Tutor in Anatomy.

Merrill K. Wolf, M.D., Associate in Anatomy.

Roy O. Greep, Ph.D., A.M. (hon.), S.D. (hon.), Member of the Department of Anatomy, and Director of the Laboratory of Human Reproduction and Reproductive Biology.

John B. Carman, M.B., Ch.B., Ph.D., Visiting Lecturer on Anatomy (from September 1, 1967).

Elias E. Manuelidis, M.D., A.M. (hon.), Visiting Lecturer on Neuroanatomy (through August 31, 1967).

George H. Paff, Ph.D., Visiting Lecturer on Anatomy (from January 1, 1968).

W. Jann Brown, M.D., Research Associate in Anatomy.

Harald Schraer, Ph.D., Research Associate in Anatomy.

Elizabeth Taber-Pierce, Ph.D., Instructor in Anatomy.

David E. Wolfe, M.D., Instructor in Anatomy.

Raymond B. Wuerker, M.D., Instructor in Anatomy.

Ita R. K. Abramof, Ph.D., Research Fellow in Anatomy (through August 31, 1967).

Jost D. Brokelman, M.D., Research Fellow in Anatomy (from September 1, 1967).

Edward M. Eddy, Ph.D., Research Fellow in Anatomy.

Paul McC. Heidger, Jr., Ph.D., Research Fellow in Anatomy.

Francis J. Manasek, D.M.D., Research Fellow in Anatomy.

Oliver E. Millhouse, Ph.D., Research Fellow in Anatomy (from September 1, 1967).

Taisuke Nakao, M.D., Research Fellow in Anatomy (through September 30, 1967).

Donald Orlic, Ph.D., Research Fellow in Anatomy.

David M. Phillips, Ph.D., Research Fellow in Anatomy.

Constantino Sotelo, M.D., Ph.D., Research Fellow in Anatomy (through July 31, 1967).

Lily S. Tashima, Ph.D., Research Fellow in Anatomy.

Robert E. Waterman, Ph.D., Research Fellow in Anatomy (from September 1, 1967).

Affiliated:

James D. Robertson, M.D. Lecturer on Neuropathology.

Jesse F. Scott, M.D., Associate Professor of Oncologic Medicine.

Richard L. Sidman, M.D., Assistant Professor of Neuropathology.

Benjamin Spector, M.D., Coordinator of Anatomical Materials.

The Department of Anatomy offers instruction in gross human anatomy, histology and cytology, embryology, and neuroanatomy. Opportunities are also afforded for advanced work and research in these subjects. The Department occupies the Morgan Anatomical Building in the first three floors of the wing designated as B1, and the first two floors of B2. This space includes offices and research laboratories of the staff, rooms for graduate students and fellows, seminar rooms, a photographic department and laboratories devoted to cytochemistry, tissue culture, and electron microscopy.

There is a large departmental library containing complete files of the important journals in the fields of anatomy, developmental biology, and experimental cytology, together with many standard textbooks and works of reference. The library is open to staff, students and others, on a non-circulating basis.

The Minot Embryological Collection is a unique feature of the laboratory. It comprises approximately twenty-three hundred series of sections of selected vertebrate embryos representing a wide range of species and therefore affords opportunities for research in comparative embryology such as cannot be found elsewhere.

The Department also has valuable neurological material for both teaching and research, including two entire human brains cut serially in the transverse and horizontal planes, with the sections alternately stained by the Pal-Weigert and Nissl methods.

Required Courses

Anatomy A and B. *First Year.* — The courses of the first year are intended to teach human anatomy, both gross and microscopic, together with the essentials of human embryology and neurology.

In the study of gross anatomy, students make a complete dissection of the human body in the second semester. Four students are assigned to the same body, and work together during the course. The study of the skeleton is carried on concurrently with the dissection, and each student is provided with a box of bones which may be kept throughout the course. There are lectures and demonstrations which serve to emphasize the clinical application of gross anatomical relations and to teach certain aspects of human biology not adequately treated in the textbooks. Special dissections and various anatomical

specimens and preparations are displayed to supplement the student's own dissections.

That part of the course in microscopic anatomy given in the first semester is intended to give the student familiarity with the normal structure of cells and tissues as they appear under light microscope and with their finer structure as revealed by the electron microscope. The histology presented in the second semester forms part of the correlative teaching in which the structure, physiology, and biochemistry of the gastrointestinal tract and endocrine glands are studied.

Embryology is taught in conjunction with histology in a series of lectures in the first semester.

Neuroanatomical instruction is given as a part of the section of correlative teaching in the second semester designated Neurosciences.

FIRST YEAR	HOURS
Lectures. Drs. Fawcett, Palay, Edwards, Hay, Szabo, Adelstein, Ito, Jones, Paff, Revel, Sorokin, Coggeshall, Hamilton, Morest and Wuerker.	
Demonstrations. To sections of the class, at the pleasure of the instructors.	
Laboratory work.	372

Fourth Year Elective Courses *

BLOCK COURSES

501. Surgical Anatomy. Dr. Edwards and Associates. (*Same course as Anatomy 203, Faculty of Arts and Sciences.*)
502. Comparative Vertebrate Physiology. Dr. Lyman and Associates. (*Same course as Anatomy 205, Faculty of Arts and Sciences.*)

LONGITUDINAL COURSES

701. Advanced Cytology. Dr. Fawcett and Associates. (*Same course as Anatomy 206, Faculty of Arts and Sciences.*) Not offered in 1967–1968.
702. Developmental Biology. Dr. Hay and Associates. (*Same course as Anatomy 207, Faculty of Arts and Sciences*). Not offered in 1967–1968.
703. Advanced Neurocytology. Dr. Palay and Associates. (*Same course as Anatomy 208, Faculty of Arts and Sciences.*)

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

Department of Bacteriology and Immunology

Bernard D. Davis, M.D., Adele Lehman Professor of Bacteriology and Immunology, and Head of the Department.

Albert H. Coons, M.D., Career Investigator of the American Heart Association, and Visiting Professor of Bacteriology and Immunology.

Luigi Gorini, Ph.D. (Equiv.), A.M. (hon.), American Cancer Society Professor of Bacteriology and Immunology.

Irwin Tessman, Ph.D., Visiting Professor of Bacteriology and Immunology (resigned August 31, 1967).

Harold Amos, Ph.D., Associate Professor of Bacteriology and Immunology.

Jonathan R. Beckwith, Ph.D., Associate Professor of Bacteriology and Immunology.

Monroe D. Eaton, M.D., Associate Professor of Bacteriology and Immunology.

Edward H. Kass, Ph.D., M.D., A.M. (hon.), Sc.D. (hon.), Associate Professor of Bacteriology and Immunology.

Edmund C. C. Lin, Associate Professor of Bacteriology and Immunology (from January 1, 1968).

Charles T. Ambrose, M.D., Assistant Professor of Bacteriology and Immunology.

Donald T. Dubin, M.D., Assistant Professor of Bacteriology and Immunology (resigned August 31, 1967).

Dan G. Fraenkel, Ph.D., Assistant Professor of Bacteriology and Immunology.

Howard Goldfine, Ph.D., Assistant Professor of Bacteriology and Immunology (on leave July 1, 1967 through June 30, 1968).

Lawrence J. J. Kunz, Ph.D., Assistant Professor of Bacteriology and Immunology at the Massachusetts General Hospital.

Sidney Leskowitz, Ph.D., Assistant Professor of Bacteriology and Immunology at the Massachusetts General Hospital.

Mortimer Litt, M.D., Assistant Professor of Bacteriology and Immunology.

Hiroshi Nikaido, M.D., Assistant Professor of Bacteriology and Immunology at the Massachusetts General Hospital.

Elmer R. Pfefferkorn, Ph.D., Silas Arnold Houghton Assistant Professor of Bacteriology and Immunology (resigned July 31, 1967).

Barbara Wright, Ph.D., Assistant Professor of Bacteriology and Immunology (part time).

Geronimo Terres, Jr., Ph.D., Visiting Assistant Professor of Bacteriology and Immunology (from September 1, 1967).

Julian E. Davies, Ph.D., Associate in Bacteriology and Immunology (resigned August 31, 1967).

Janine A. Andre-Schwartz, M.D., Research Associate in Bacteriology and Immunology.

Raquel R. Arditti, Ph.D., Research Associate in Bacteriology and Immunology.

Muthiah D. Daniel, Ph.D., Research Associate in Bacteriology and Immunology.

George A. Jacoby, Jr., M.D., Research Associate in Bacteriology and Immunology (through December 31, 1967).

Iolanda E. Low, M.D., Research Associate in Bacteriology and Immunology.

Luis V. Melendez, D.V.M., Research Associate in Bacteriology and Immunology.

Carl Norden, M.D., Research Associate in Bacteriology and Immunology.

Lawrence M. B. Razavi, M.B., B.S., Research Associate in Bacteriology and Immunology.

Peter C. Reade, Ph.D., Research Associate in Bacteriology and Immunology.

Micheline M. Roth, M.D., Research Associate in Bacteriology and Immunology.

Paolo F. G. Strigini, M.D., Research Associate in Bacteriology and Immunology.

Barbara K. Watson, Ph.D., Research Associate in Bacteriology and Immunology.

Michael A. Bratt, Ph.D., Instructor in Bacteriology and Immunology.

Alice K. Daly, S.B., Assistant in Bacteriology and Immunology.

Joan B. Daniels, S.B., Assistant in Bacteriology and Immunology.

Jean A. Klastersky, M.D., Assistant in Bacteriology and Immunology (from September 1, 1967).

Alice McDonald, A.B., Assistant in Bacteriology and Immunology.

Porter W. Anderson, Jr., Ph.D., Research Fellow in Bacteriology and Immunology (through August 31, 1967).

Paul Baumann, Ph.D., Research Fellow in Bacteriology and Immunology.

Ulf S. Bjare, Fil.Lic., Research Fellow in Bacteriology and Immunology (from September 15, 1967).

Richard C. Blinkoff, Ph.D., Research Fellow in Bacteriology and Immunology (through August 31, 1967).

Peter Braun, M.D., Research Fellow in Bacteriology and Immunology.

Boyce W. Burge, Ph.D., Harold C. Ernst Research Fellow in Bacteriology and Immunology (through July 31, 1967).

Richard N. Collins, M.D., Research Fellow in Bacteriology and Immunology.

Alan J. Cooper, M.D., Research Fellow in Bacteriology and Immunology (from September 1, 1967).

Michel A. Horisberger, Ph.D., Research Fellow in Bacteriology and Immunology.

Karin A. Ippen, Ph.D., Harold C. Ernst Research Fellow in Bacteriology and Immunology (from September 15, 1967).

Robert E. Kohler, Jr., Ph.D., Research Fellow in Bacteriology and Immunology.

Arnold I. Meisler, M.D., Research Fellow in Bacteriology and Immunology (through July 31, 1967).

Juan B. Modolell, Ph.D., Research Fellow in Bacteriology and Immunology.

Graciela M. Peyru, M.D., Research Fellow in Bacteriology and Immunology (through July 31, 1967).

Patrick J. Piggot, Ph.D., Research Fellow in Bacteriology and Immunology.

Roger V. Quincey, Ph.D., Research Fellow in Bacteriology and Immunology (through August 31, 1967).

Eliora Z. Ron, Ph.D., Research Fellow in Bacteriology and Immunology.

Joan P. Roscoe, Ph.D., Research Fellow in Bacteriology and Immunology.

Roland Rosset, Ph.D., Research Fellow in Bacteriology and Immunology.

John G. Scaiff, Ph.D., Research Fellow in Bacteriology and Immunology.

Dinesh P. Sinha, M.D., Research Fellow in Bacteriology and Immunology.

Philip F. Sparling, M.D., Research Fellow in Bacteriology and Immunology.

Alapuzha R. Subramanian, Ph.D., Research Fellow in Bacteriology and Immunology (from September 1, 1967).

Publio Toala, M.D., Research Fellow in Bacteriology and Immunology.

Burton E. Tropp, Ph.D., Research Fellow in Bacteriology and Immunology.

Ryosuke Yuasa, M.D., Research Fellow in Bacteriology and Immunology.

Robert A. Zimmermann, Ph.D., Research Fellow in Bacteriology and Immunology.

Stephen H. Zinner, M.D., Research Fellow in Bacteriology and Immunology.

Affiliated:

Edward S. Murray, M.D., M.P.H., Professor of Microbiology in the School of Public Health.

Thomas H. Weller, M.D., LL.D., Richard Pearson Strong Professor of Tropical Public Health in the School of Public Health.

K. Frank Austen, M.D., Associate Professor of Medicine at the Robert B. Brigham Hospital.

Samuel D. Bell, Jr., M.D., M.P.H., Associate Professor of Microbiology in the School of Public Health.

Eli Chernin, S.D., Associate Professor of Tropical Public Health in the School of Public Health.

Morton N. Swartz, M.D., Associate Professor of Medicine at the Massachusetts General Hospital.

John R. David, M.D., Assistant Professor of Medicine at the Robert B. Brigham Hospital.

Ronald J. Gibbons, Ph.D., Assistant Clinical Professor of Bacteriology at the School of Dental Medicine.

Edgar Haber, M.D., Assistant Professor of Medicine at the Massachusetts General Hospital.

Samuel L. Katz, M.D., Assistant Professor of Pediatrics at The Children's Hospital.

Fred S. Rosen, M.D., Assistant Professor of Pediatrics at The Children's Hospital.

David R. Smith, M.D., Assistant Professor of Pediatrics at The Children's Hospital.

Sigmund S. Socransky, D.D.S., Assistant Clinical Professor of Bacteriology at the School of Dental Medicine.

Henry J. Winn, M.D., Assistant Professor of Bacteriology and Immunology in the Department of Surgery at the Massachusetts General Hospital.

Kurt J. Bloch, M.D., Associate in Medicine at the Massachusetts General Hospital.

David S. Feingold, M.D., Associate in Medicine at the Beth Israel Hospital.

Arnold S. Weinberg, M.D., Associate in Medicine at the Massachusetts General Hospital.

Required Course

Bacteriology A. *Second Year.* — This course consists of lectures, laboratory exercises, and conferences, designed to acquaint the student with the principles of bacteriology, virology, immunology,

allergy, and chemotherapy. The fungi will also be briefly considered.

The first part of the course consists of an introduction to general microbiology, including the structure, physiology, metabolism, and genetics of bacteria and bacteriophage. Attention will then be given to the agents of infectious disease, with emphasis on properties that are useful in their identification and in understanding their pathogenicity. The exercises on host-parasite relations and allergy will be correlated with pathology, while those on chemotherapy will be correlated with pharmacology. Clinics held in various hospitals will introduce the student to infectious disease in man.

While the course is designed primarily as a preparation for later clinical work on infectious disease, considerable attention will also be given to illustrating the use of unicellular organisms in studying problems of cell physiology and molecular biology common to all cells, including those of man.

SECOND YEAR HOURS

Lectures, laboratory work, and conferences. Dr. Davis and Staff.
First half-year. Most exercises take place on Monday, Wednesday, and Friday afternoons with conferences on Saturday mornings. 168

Fourth Year Elective Courses *

LONGITUDINAL COURSES

701. Immunology. Drs. Coons, K. F. Austen, Bloch, Rosen, and Associates. (*Same course as Bacteriology 207, Faculty of Arts and Sciences.*)
702. General Virology. Drs. Eaton, Caspar, Burge, and Associates. (*Same course as Bacteriology 206, Faculty of Arts and Sciences.*)
703. Microbial and Molecular Genetics. Dr. Beckwith and Associates. (*Same course as Bacteriology 208, Faculty of Arts and Sciences.*) Not offered in 1967–68.

* *See A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

Department of Biological Chemistry

Elkan R. Blout, Ph.D., A.M. (hon.), Edward S. Harkness Professor of Biological Chemistry, and Head of the Department.

Eric G. Ball, Ph.D., S.D. (hon.), A.M. (hon.), Edward S. Wood Professor of Biological Chemistry, and Chairman of the Division of Medical Sciences of the Faculty of Arts and Sciences.

Lewis L. Engel, Ph.D., American Cancer Society Professor of Biological Chemistry (on leave October 1, 1967 through September 30, 1968).

Jordi Folch-Pi, M.D., A.M. (hon.), Professor of Neurochemistry at the McLean Hospital.

Herman M. Kalckar, M.D., Ph.D., A.M. (hon.), D.Sc. (hon.), Professor of Biological Chemistry at the Massachusetts General Hospital.

Manfred L. Karnovsky, Ph.D., A.M. (hon.), Harold T. White Professor of Biological Chemistry, and Secretary of the Faculty of Medicine.

Eugene P. Kennedy, Ph.D., A.M. (hon.), Hamilton Kuhn Professor of Biological Chemistry.

Charles A. Thomas, Jr., Ph.D., Professor of Biological Chemistry.

Bert L. Vallee, M.D., A.M. (hon.), Paul C. Cabot Professor of Biological Chemistry.

Claude A. Villee, Ph.D., A.M. (hon.), Andelot Professor of Biological Chemistry, and Tutor in Biological Chemistry.

Roger W. Jeanloz, D.Sc., A.M. (hon.), Associate Professor of Biological Chemistry at the Massachusetts General Hospital.

W. Eugene Knox, M.D., Associate Professor of Biological Chemistry at the New England Deaconess Hospital.

Charles C. Richardson, M.D., Associate Professor of Biological Chemistry.

*Arthur K. Solomon, Ph.D., D.Phil., Associate Professor of Biophysics.

Joseph B. Alpers, M.D., Assistant Professor of Biological Chemistry.

John L. Bethune, Ph.D., Assistant Professor of Biological Chemistry.

Donald G. Comb, Ph.D., Assistant Professor of Biological Chemistry.

John Gergely, M.D., Ph.D., Assistant Professor of Biological Chemistry (part time).

Standish C. Hartman, Ph.D., Assistant Professor of Biological Chemistry.

George Hauser, Ph.D., Assistant Professor of Biological Chemistry at the McLean Hospital.

Edmund C. C. Lin, Ph.D., Assistant Professor of Biological Chemistry (through December 31, 1967).

Susan Lowey, Ph.D., Assistant Professor of Biological Chemistry at The Children's Hospital.

Lewis C. Mokrasch, Ph.D., Assistant Professor of Biological Chemistry at the McLean Hospital.

Henry P. Paulus, Ph.D., Assistant Professor of Biological Chemistry.

Sidney V. Rieder, Ph.D., Assistant Professor of Biological Chemistry at the Massachusetts General Hospital.

Robert G. Spiro, M.D., Assistant Professor of Biological Chemistry at the Peter Bent Brigham Hospital.

Donald F. H. Wallach, M.D., Assistant Professor of Biological Chemistry.

Lorne A. MacHattie, Ph.D., Lecturer on Biological Chemistry.

Pierre J. Stoffyn, Ph.D., Lecturer on Biological Chemistry at the McLean Hospital.

Roberta F. Colman, Ph.D., Associate in Biological Chemistry at the Massachusetts General Hospital.

Robert L. Jungas, Ph.D., Associate in Biological Chemistry.

* Appointment under the Committee on Medical Research in Biophysics.

Ting-Kai Li, M.D., Associate in Medicine in the Department of Biological Chemistry.

James C. Orr, Ph.D., Associate in Biological Chemistry.

William J. Reddy, D.Sc., Associate in Biological Chemistry at the Peter Bent Brigham Hospital.

James F. Riordan, Ph.D., Associate in Biological Chemistry.

James P. Koch, M.D., Lecturer on Biological Chemistry.

Elizabeth R. Simons, Ph.D., Lecturer on Biological Chemistry.

Robert J. P. Williams, Ph.D., Visiting Lecturer on Biological Chemistry (through August 31, 1967).

Atushi Ando, D.Sc., Research Associate in Biological Chemistry (from November 1, 1967).

Nicolas G. Bazan, Jr., M.D., Research Associate in Biological Chemistry.

Alexander U. Bertland, II, Ph.D., Research Associate in Biological Chemistry.

Risto Bokonjic, M.D., Research Associate in Biological Chemistry (from October 1, 1967).

John F. Codington, Ph.D., Research Associate in Biological Chemistry (from September 1, 1967).

Thomas L. Coombs, Ph.D., Research Associate in Biological Chemistry.

Susan R. Dowd, Ph.D., Research Associate in Biological Chemistry.

Joseph Eichberg, Jr., Ph.D., Research Associate in Biological Chemistry.

Tomoko Fujii, M.D., Research Associate in Biological Chemistry.

Keiichiro Fuwa, Ph.D., Research Associate in Biological Chemistry.

Guiseppe Geraci, Ph.D., Milton Research Associate in Biological Chemistry (from November 1, 1967).

Olga F. Greengard, Ph.D., Research Associate in Biological Chemistry.

Kohei Hayashi, M.D., Ph.D., Research Associate in Biological Chemistry.

George E. Hein, Ph.D., Research Associate in Biological Chemistry (resigned October 31, 1967).

Albert E. Herner, Ph.D., Research Associate in Biological Chemistry (from September 15, 1967).

Mervyn Israel, Ph.D., Research Associate in Biological Chemistry.

Peteranne B. Joel, Ph.D., Research Associate in Biological Chemistry.

Harry J. Karavolas, Ph.D., Research Associate in Biological Chemistry.

Walter A. Kornicker, Ph.D., Research Associate in Biological Chemistry (through July 31, 1967).

Kichang Kum, M.D., Ph.D., Research Associate in Biological Chemistry (resigned July 31, 1967).

David G. Large, Ph.D., Research Associate in Biological Chemistry (from September 1, 1967).

Marjorie B. Lees, Ph.D., Research Associate in Biological Chemistry.

Gian P. Lorenzi, D.Sc., Research Associate in Biological Chemistry.

Akira Makita, M.D., Ph.D., Research Associate in Biological Chemistry (from September 1, 1967).

Yukito Masamune, Ph.D., Milton Research Associate in Biological Chemistry (from September 1, 1967).

Johannes A. Meienhofer, Dr.Nat., Research Associate in Biological Chemistry.

Ezio Merler, Ph.D., Research Associate in Biological Chemistry.

Tudor G. Morris, Ph.D., Research Associate in Biological Chemistry (from September 1, 1967).

Henrik A. Olesen, Ph.D., Research Associate in Biological Chemistry (from September 1, 1967).

Erika E. Randerath, Ph.D., Research Associate in Biological Chemistry.

Annette M. C. Rapin, Ph.D., Research Associate in Biological Chemistry.

Vernon N. Reinhold, Ph.D., Research Associate in Biological Chemistry (from September 1, 1967).

Glyn P. Roberts, Ph.D., Research Associate in Biological Chemistry.

Andre Rosowsky, M.D., Research Associate in Biological Chemistry.

Wilmer D. Rupp, Jr., Ph.D., Research Associate in Biological Chemistry (from September 1, 1967).

D. Rao Sanadi, Ph.D., Research Associate in Biological Chemistry.

Rosemary S. J. Schraer, Ph.D., Research Associate in Biological Chemistry (from September 1, 1967).

Wan-Kyng L. Shum, Ph.D., Research Associate in Biological Chemistry.

S. Sridhara, Ph.D., Research Associate in Biological Chemistry.

Anne M. Stoffyn, Ph.D., Research Associate in Biological Chemistry.

Masashi Tomoda, Ph.D., Research Associate in Biological Chemistry (from September 1, 1967).

Noe Zwaig, Ph.D., Research Associate in Biological Chemistry.

Dennis C. Gould, Ph.D., Instructor in Biological Chemistry.

David S. Sigman, Ph.D., Instructor in Biological Chemistry.

Elvera Algeri Glass, S.B., Assistant in Biological Chemistry.

David S. Auld, Ph.D., Research Fellow in Biological Chemistry.

Roy Barzilay, Ph.D., Research Fellow in Biological Chemistry (from September 15, 1967).

Paul J. Beisswenger, M.D., Research Fellow in Biological Chemistry.

David Beith-Halahmi, Ph.D., Research Fellow in Biological Chemistry (from September 1, 1967).

May Bertschmann, Dr.Phil., Research Fellow in Biological Chemistry (from October 1, 1967).

Peter Biely, Ph.D., Research Fellow in Biological Chemistry (from January 1, 1968).

Gerald J. Chader, Ph.D., Research Fellow in Biological Chemistry (from October 1, 1967).

Toby M. Chapman, Ph.D., Research Fellow in Biological Chemistry (through September 15, 1967).

Eduardo H. Charreau, Ph.D., Research Fellow in Biological Chemistry.

Philipp Christen, M.D., Research Fellow in Biological Chemistry.

Richard C. Davies, D. Phil., Research Fellow in Biological Chemistry (through July 31, 1967).

Charles M. Deber, Ph.D., Research Fellow in Biological Chemistry (from September 15, 1967).

Lawrence R. Dechatelet, Ph.D., Research Fellow in Biological Chemistry.

Ivan F. Diamond, M.D., Research Fellow in Biological Chemistry.

Daina Z. Ewton, Ph.D., Research Fellow in Biological Chemistry.

Gordon F. Fairclough, Jr., Ph.D., Research Fellow in Biological Chemistry.

Ralph P. Francesconi, Ph.D., Research Fellow in Biological Chemistry.

Francesc Gonzalez-Sastre, M.D., Research Fellow in Biological Chemistry.

Adrienne S. Gordon, Ph.D., Research Fellow in Biological Chemistry.

Carole L. Hall, Ph.D., Research Fellow in Biological Chemistry.

Margot A. Hamilton, Ph.D., Research Fellow in Biological Chemistry (from September 1, 1967).

Robert W. Henkens, Ph.D., Research Fellow in Biological Chemistry.

Jerzy Hildebrand, M.D., Research Fellow in Biological Chemistry (from September 1, 1967).

Maria L. Horowitz, Ph.D., Research Fellow in Biological Chemistry.

Jeong H. Im, Ph.D., Research Fellow in Biological Chemistry.

Alain G. Jacquemin-Sablon, Ph.D., Research Fellow in Biological Chemistry.

Theodore H. D. Jones, Ph.D., Research Fellow in Biological Chemistry.

Herbert M. Kagan, Ph.D., Research Fellow in Biological Chemistry.

Afzal A. Khan, Ph.D., Research Fellow in Biological Chemistry (through December 31, 1967).

Toshimasa Kojima, Ph.D., Research Fellow in Biological Chemistry.

Yutaka Kojima, M.D., Ph.D., Research Fellow in Biological Chemistry.

Samuel A. Latt, M.D., Research Fellow in Biological Chemistry.

Jorge A. Leston, M.D., Research Fellow in Biological Chemistry.

Helene B. Markus, Ph.D., Research Fellow in Biological Chemistry (from November 1, 1967).

David I. Marlborough, Ph.D., Research Fellow in Biological Chemistry.

Norman R. Marquis, Ph.D., Research Fellow in Biological Chemistry (resigned August 31, 1967).

Barbara J. McNeil, M.D., Research Fellow in Biological Chemistry.

Robert H. Michell, Ph.D., Research Fellow in Biological Chemistry.

A. Munro Neville, M.B., Ch.B., Ph.D., Research Fellow in Biological Chemistry (through September 30, 1967).

Yang H. Oh, Ph.D., Research Fellow in Biological Chemistry (through December 31, 1967).

Donald S. O'Hara, M.D., Ph.D., Research Fellow in Biological Chemistry (from October 1, 1967).

Alfred F. Parisi, M.D., Research Fellow in Biological Chemistry.

Chantal J. Peeters, Ph.D., Milton Research Fellow in Biological Chemistry (from October 1, 1967).

Peter Perchemlides, Ph.D., Research Fellow in Biological Chemistry (through August 31, 1967).

Eliezer S. Rachamian, Ph.D., Research Fellow in Biological Chemistry.

Marcus M. Rhoades, Jr., Ph.D., Research Fellow in Biological Chemistry (through August 31, 1967).

George Rouschias, Ph.D., Milton Research Fellow in Biological Chemistry (from September 1, 1967).

Yoshikazu Sanno, M.D., Ph.D., Research Fellow in Biological Chemistry.

Nilima Sarkar, Ph.D., Research Fellow in Biological Chemistry.

Gene A. Scarborough, Ph.D., Research Fellow in Biological Chemistry.

Angelo Scatturin, Ph.D., Research Fellow in Biological Chemistry (from December 15, 1967).

Ekkehard Schillinger, Ph.D., Research Fellow in Biological Chemistry.

Pierre G. Sinay, Ph.D., Research Fellow in Biological Chemistry.

Masami Suzuki, Ph.D., Research Fellow in Biological Chemistry (through July 15, 1967).

Sherman C. Sweeney, D.D.S., Research Fellow in Biological Chemistry.

Manning M. Thaler, M.D., Research Fellow in Biological Chemistry (through August 31, 1967).

Ambika J. Tolani, Ph.D., Research Fellow in Biological Chemistry (from October 1, 1967).

Dennis A. Torchia, Ph.D., Research Fellow in Biological Chemistry (from September 1, 1967).

Vishnu M. Vaidya, Ph.D., Research Fellow in Biological Chemistry (through October 31, 1967).

Subbiah Venkataraman, Ph.D., Research Fellow in Biological Chemistry (through September 30, 1967).

Bernard Weiss, M.D., Research Fellow in Biological Chemistry (through August 31, 1967).

Stringner S. Yang, Ph.D., Research Fellow in Biological Chemistry.

Elizabeth Fowler, A.B., Teaching Fellow in Biological Chemistry.

Sherwood Githens III, A.B., Teaching Fellow in Biological Chemistry.

Wilson S. Kistler, Jr., A.B., Teaching Fellow in Biological Chemistry.

Joan E. Lusk, A.B., Teaching Fellow in Biological Chemistry.
Robert T. Simpson, M.D., Teaching Fellow in Biological Chemistry.
Ellen Solomon, B.S., Teaching Fellow in Biological Chemistry.

Affiliated:
Finn Brudevold, D.D.S., A.M. (hon.), Professor of Dentistry at the Forsyth Dental Infirmary for Children.
George Nichols, Jr., M.D., Clinical Professor of Medicine.
James H. Shaw, Ph.D., Professor of Nutrition in the School of Dental Medicine.
Fredrick J. Stare, Ph.D., M.D., Professor of Nutrition, S.P.H.
D. Mark Hegsted, Ph.D., Associate Professor of Nutrition, S.P.H.

Required Course

Biological Chemistry A. *First Year.* — During the first semester the lectures in Biological Chemistry discuss the chemical components of living matter and the metabolic processes common to all tissues. Laboratory work deals with the physical and chemical concepts necessary to an understanding of living processes, and the fundamental chemical characteristics of biological compounds and enzymatic reactions.

During the second semester the lectures and laboratory work in biochemistry are interwoven with those given by the Departments of Physiology and Anatomy. The Department of Biological Chemistry will deal with the following topics: inorganic chemical composition of body tissues and fluids and physical chemical factors governing their control: the transport of O_2 and CO_2 in the blood and acid-base balance. The gastro-intestinal and endocrine systems will be studied. The Department will present the chemical processes involved in digestion and absorption; the intermediary metabolism of the liver; the chemistry and metabolism of cholesterol, the bile acids, and the steroid hormones; and the regulatory effects of hormones in general on metabolism. In the period, which explores the neuro-sciences, certain special aspects of the chemistry and metabolism of brain and nerve are the contributions of the Department of Biological Chemistry.

FIRST YEAR HOURS

Lectures and laboratory work. Drs. Alpers, Ball, Bethune, Blout, Comb, Darrow, Engel, Folch-Pi, Gergeley, Hagerman, Hartman, Hauser, Jeanloz, Joel, Kalckar, Karnovsky, Kennedy, Knox, Lin, Paulus, Pearlman, Reddy, Richardson, Rieder, Solomon, Spiro, Vallee, Villee, and Wallach. 220

Fourth Year Elective Courses *

LONGITUDINAL COURSES

702. Topics on Biochemical Evolution. Dr. Lin. (*Same course as Biochemistry 221, Faculty of Arts and Sciences.*)
703. Biochemical Techniques. Members of the Department. (*Same course as Biochemistry 202, Faculty of Arts and Sciences.*)
704. Molecular Mechanisms in Neoplasia. Dr. Wallach and Associates. (*Same course as Biochemistry 222, Faculty of Arts and Sciences.*)
705. Peptides and Proteins. Drs. Blout, Vallee, and Associates. (*Same course as Biochemistry 213, Faculty of Arts and Sciences.*)

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

Dental Medicine

Opportunities for voluntary and elective work are available at the School of Dental Medicine for third and fourth year medical students. Course material will be designed to meet individual needs where possible. Instruction will be on a tutorial basis. Make all inquiries at the Dean's Office, School of Dental Medicine.

Fourth Year Elective Course *

LONGITUDINAL COURSE

702. Child Growth and Development. Dr. Moorrees.

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–68* for additional information.

1967 - 1968

Department of Dermatology

Thomas B. Fitzpatrick, M.D., Ph.D., Edward Wigglesworth Professor of Dermatology, and Head of the Department.

Maurice M. Tolman, M.D., Clinical Professor of Dermatology.

Howard P. Baden, M.D., Assistant Professor of Dermatology.

Irvin H. Blank, Ph.D., Assistant Professor of Dermatology at the Massachusetts General Hospital.

Arthur Z. Eisen, M.D., Assistant Professor of Dermatology at the Massachusetts General Hospital (resigned September 30, 1967).

Irwin M. Freedberg, M.D., Assistant Professor of Dermatology at the Beth Israel Hospital.

Robert D. Griesemer, M.D., Assistant Professor of Dermatology at the Massachusetts General Hospital.

Madhukar A. Pathak, Ph.D., Assistant Professor of Dermatology.

George Szabo, Ph.D., Assistant Professor of Anatomy in the Department of Dermatology.

Jean B. Burnett, Ph.D., Associate in Biological Chemistry in the Department of Dermatology.

Richard Masters, M.D., Ph.D., Clinical Associate in Dermatology.

Jiri Duchon, M.D., Ph.D., Research Associate in Dermatology (through February 29, 1968).

Paul F. A. Maderson, Ph.D., Research Associate in Dermatology.

Robert Scheuplein, Ph.D., Research Associate in Dermatology.

Kenneth A. Arndt, M.D., Instructor in Dermatology.

William L. Curwen, M.D., Instructor in Dermatology.

Nicholas J. Fiumara, M.D., Instructor in Dermatology.

William F. Gallagher, M.D., Instructor in Dermatology.

William R. Hill, M.D., Instructor in Dermatology.

Charles S. Keuper, M.D., Instructor in Dermatology.

Philip L. McCarthy, M.D., Instructor in Dermatology.

A. David McGugan, M.B., Ch.B., Instructor in Dermatology.

Robert F. Tilley, M.D., Instructor in Dermatology.
Leroy D. Aaronson, M.D., Assistant in Dermatology.
Joseph Albert, M.D., Assistant in Dermatology.
Earl A. Glicklich, M.D., Assistant in Dermatology.
Milton E. Helman, M.D., Assistant in Dermatology.
Burnham E. Lamkins, M.D., Assistant in Dermatology.
Kenneth M. Lloyd, II, M.D., Assistant in Dermatology.
Myron H. Matz, M.D., Assistant in Dermatology.
Edmund L. Piper, M.D., Assistant in Dermatology.
Sabino J. Sinesi, M.D., Assistant in Dermatology.
Arthur S. Spangler, M.D., Assistant in Dermatology.
Evelina A. Bernardino, M.D., Research Fellow in Dermatology.
Rosine Bretton, M.D., Research Fellow in Dermatology (through December 31, 1967).
Bertram A. Flaxman, M.D., Research Fellow in Dermatology.
Lynn F. From, M.D., Research Fellow in Dermatology.
Lowell A. Goldsmith, M.D., Research Fellow in Dermatology.
Yoshiaki Hori, M.D., Ph.D., Research Fellow in Dermatology.
David P. Johnson, M.D., Research Fellow in Dermatology.
Dimitrios T. Kalivas, M.D., Research Fellow in Dermatology.
Dieter Kramer, Ph.D., Research Fellow in Dermatology (from January 1, 1968).
Katsuhiko Matsui, Ph.D., Research Fellow in Dermatology (from September 1, 1967).
Masamitsu Miyamoto, M.D., Research Fellow in Dermatology (through August 31, 1967).
Kiyoshi Toda, M.D., Research Fellow in Dermatology (through May 31, 1968).
A. Bernard Ackerman, M.D., Teaching Fellow in Dermatology (from September 1, 1967).

Required Course

Dermatology. *Introduction to the Clinic* and *Principal Clinical Year.* — The courses emphasize the pathologic physiology of various diseases involving the skin and the recognition of cutaneous manifestations of systemic diseases. Instruction consists of lectures and

clinical exercises at the hospitals during the Introduction to the Clinic and a clinical clerkship during the Principal Clinical Year.

INTRODUCTION TO THE CLINIC	HOURS
Lectures and clinical exercises. B.I.H., B.C.H., M.G.H., P.B.B.H.	
PRINCIPAL CLINICAL YEAR	
Clinical Clerkship. M.G.H.	40

Fourth Year Elective Courses *

BLOCK COURSES

501M. Dermatology I. Dr. I. Freedberg. (*Same course as Medicine 540M.*)
502M. Clinical Clerkship. Dr. Fitzpatrick and Associates.
503M. Pathology of Skin — Clinical and Microscopic Correlations. Drs. Fitzpatrick and W. Clark. (*Same course as Pathology 511M.*)

LONGITUDINAL COURSES

701. Clinical Conference and Presentation of Patients. Dr. Fitzpatrick and Associates.
702. Clinical Conference and Presentation of Patients. Dr. Tolman.
703. Seminars on Pathophysiology of Skin.
704. Neoplasms of Melanocytes and Related Problems in Cutaneous Pathology. Dr. W. Clark. (*Same course as Pathology 701.*)

* *See A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

Department of Medicine

Maxwell Finland, M.D., D.Sc. (hon.), George Richards Minot Professor of Medicine, and Head of the Department at the Boston City Hospital.

Howard H. Hiatt, M.D., Herrman Ludwig Blumgart Professor of Medicine, and Head of the Department at the Beth Israel Hospital.

Alexander Leaf, M.D., A.M. (hon.), Jackson Professor of Clinical Medicine, and Head of the Department at the Massachusetts General Hospital.

George W. Thorn, M.D., A.M. (hon.), LL.D. (hon.), Sc.D. (hon.), Dr. of Med. (hon.), Hersey Professor of the Theory and Practice of Physic, Samuel A. Levine Professor of Medicine, and Head of the Department at the Peter Bent Brigham Hospital.

Paul C. Zamecnik, M.D., D.Sc. (hon.), Collis P. Huntington Professor of Oncologic Medicine, Director of the J. Collins Warren Laboratories of the Huntington Memorial Hospital, and Chairman of the Executive Committee of the Departments of Medicine.

William B. Castle, M.D., S.M. (hon.), M.D. (hon.), S.D. (hon.), LL.D., Francis Weld Peabody Faculty Professor of Medicine.

Lewis Dexter, M.D., Clinical Professor of Medicine, and Tutor in Medicine.

Robert H. Ebert, Dr. Phil., M.D., A.M. (hon.), Professor of Medicine, and Dean of the Faculty of Medicine.

Laurence B. Ellis, M.D., Clinical Professor of Medicine.

Kendall Emerson, Jr., M.D., Clinical Professor of Medicine.

Eugene C. Eppinger, M.D., Clinical Professor of Medicine.

David Hurwitz, M.D., Clinical Professor of Medicine.

Kurt J. Isselbacher, M.D., Professor of Medicine at the Massachusetts General Hospital.

Alfred Kranes, M.D., Clinical Professor of Medicine.

Alexander Marble, M.D., Clinical Professor of Medicine.

William C. Moloney, M.D., D.Sc. (hon.), Clinical Professor of Medicine.

George Nichols, Jr., M.D., Clinical Professor of Medicine.

Thomas A. Warthin, M.D., Clinical Professor of Medicine.

Louis Zetzel, M.D., Clinical Professor of Medicine.

Paul M. Zoll, M.D., Clinical Professor of Medicine.

Walter H. Abelmann, M.D., Associate Clinical Professor of Medicine.

K. Frank Austen, M.D., Associate Professor of Medicine at the Robert B. Brigham Hospital.

George F. Cahill, Jr., M.D., A.M. (hon.), Associate Professor of Medicine at the Peter Bent Brigham Hospital.

Earle M. Chapman, M.D., Associate Clinical Professor of Medicine.

Charles S. Davidson, M.D., C.M., A.M. (hon.), Associate Professor of Medicine.

A. Stone Freedberg, M.D., Associate Professor of Medicine at the Beth Israel Hospital (on leave September 1, 1967 through August 31, 1968).

Irving H. Goldberg, M.D., Ph.D., A.M. (hon.), Associate Professor of Medicine.

Jerome Gross, M.D., A.M. (hon.), Associate Professor of Medicine at the Massachusetts General Hospital.

Sidney H. Ingbar, M.D., Associate Professor of Medicine.

James H. Jandl, M.D., Associate Professor of Medicine.

George S. Kurland, M.D., Associate Clinical Professor of Medicine.

Harold D. Levine, M.D., Associate Clinical Professor of Medicine.

Arthur J. Linenthal, M.D., Associate Clinical Professor of Medicine.

John P. Merrill, M.D., Associate Professor of Medicine at the Peter Bent Brigham Hospital.

Marian W. Ropes, M.D., D.Sc. (hon.), Associate Clinical Professor of Medicine.

Jesse F. Scott, M.D., A.M. (hon.), Associate Professor of Oncologic Medicine.

Morton N. Swartz, M.D., Associate Professor of Medicine at the Massachusetts General Hospital.

Alan C. Aisenberg, M.D., Ph.D., Assistant Professor of Medicine at the Massachusetts General Hospital.

David W. Allen, M.D., Assistant Professor of Medicine.

Mark D. Altschule, M.D., Assistant Clinical Professor of Medicine.

Richard H. Aster, M.D., Assistant Professor of Medicine, and Tutor in Medical Science.

Myles P. Baker, M.D., Assistant Clinical Professor of Medicine.

William H. Baker, M.D., Assistant Clinical Professor of Medicine.

Benjamin M. Banks, M.D., Assistant Clinical Professor of Medicine.

Anthony F. Bartholomay, S.D., Assistant Professor of Mathematical Biology in the Department of Medicine (resigned July 31, 1967).

Theodore B. Bayles, M.D., Assistant Clinical Professor of Medicine.

William S. Beck, M.D., Assistant Professor of Medicine at the Massachusetts General Hospital.

Frederick S. Bigelow, M.D., Assistant Clinical Professor of Medicine.

Paul H. Black, M.D., Assistant Professor of Medicine at the Massachusetts General Hospital.

Phin Cohen, M.D., Assistant Clinical Professor of Medicine (on leave July 1, 1967 through June 30, 1968).

Margaret F. Conroy, Ph.D., Assistant Professor of Mathematical Biology in the Department of Medicine, and Tutor in Mathematical Biology.

John R. David, M.D., Assistant Professor of Medicine at the Robert B. Brigham Hospital.

Harry A. Derow, M.D., Assistant Clinical Professor of Medicine.

Daniel Deykin, M.D., Assistant Professor of Medicine, and Tutor in Medical Science.

Laurence E. Earley, M.D., Assistant Professor of Medicine (resigned December 31, 1967).

Daniel S. Ellis, M.D., Assistant Clinical Professor of Medicine.

Daniel D. Federman, M.D., Assistant Professor of Medicine at the Massachusetts General Hospital, and Assistant Dean of the Faculty of Medicine for Continuing Education.

Anne P. Forbes, M.D., Assistant Clinical Professor of Medicine (on leave September 1, 1967 through June 30, 1968).

Howard S. Frazier, Ph.D., M.D., Assistant Professor of Medicine at the Beth Israel Hospital.

Dale G. Friend, M.D., Assistant Professor of Medicine at the Peter Bent Brigham Hospital.

Richard Gorlin, M.D., Assistant Professor of Medicine at the Peter Bent Brigham Hospital.

Edgar Haber, M.D., Assistant Professor of Medicine at the Massachusetts General Hospital.

Thomas C. Hall, M.D., Assistant Clinical Professor of Medicine.

John G. Harter, M.D., Assistant Clinical Professor of Medicine (resigned July 31, 1967).

Roger B. Hickler, M.D., Assistant Professor of Medicine.

Frederic L. Hoch, M.D., Assistant Professor of Medicine at the Peter Bent Brigham Hospital (resigned September 30, 1967).

Stephen M. Krane, M.D., Assistant Professor of Medicine at the Massachusetts General Hospital.

Milton Landowne, M.D., Assistant Clinical Professor of Medicine.

Jacob Lerman, M.D., Assistant Clinical Professor of Medicine.

David Littmann, M.D., Assistant Clinical Professor of Medicine.

Francis C. Lowell, M.D., Assistant Professor of Medicine at the Massachusetts General Hospital.

Farahe Maloof, M.D., Assistant Professor of Medicine at the Massachusetts General Hospital.

Donald B. Martin, M.D., Assistant Professor of Medicine at the Massachusetts General Hospital.

Gordon S. Myers, M.D., Assistant Clinical Professor of Medicine.

Joseph E. F. Riseman, M.D., Assistant Clinical Professor of Medicine.

Herbert A. Selenkow, M.D., Assistant Professor of Medicine at the Peter Bent Brigham Hospital.

Edmund H. Sonnenblick, M.D., Assistant Professor of Medicine.

J. Sydney Stillman, M.D., Assistant Clinical Professor of Medicine.

John D. Stoeckle, M.D., Assistant Professor of Medicine at the Massachusetts General Hospital.

James L. Tullis, M.D., Assistant Clinical Professor of Medicine.

David D. Ulmer, M.D., Assistant Professor of Medicine.

Warren E. C. Wacker, M.D., Assistant Professor of Medicine.

Arthur L. Watkins, M.D., Assistant Clinical Professor of Medicine.

Roe Wells, M.D., Assistant Professor of Medicine.

Bertram M. Winer, M.D., Assistant Clinical Professor of Medicine.

D. Michael Young, M.D., Assistant Professor of Biological Chemistry in the Department of Medicine.

Norman Zamcheck, M.D., Assistant Clinical Professor of Medicine.

Kenneth T. Bird, M.D., Lecturer on Medicine.

Joseph F. Dingman, M.D., Lecturer on Medicine.

Joseph W. Gardella, M.D., Lecturer on Medicine, and Associate Dean of the Faculty of Medicine for Student Affairs.

Harriet L. Hardy, M.D., Lecturer on Medicine.

Andrew G. Jessiman, M.B., Ch.B., Lecturer on Medicine.

John H. Knowles, M.D., Lecturer on Medicine.

Americo A. Abbruzzese, M.D., Clinical Associate in Medicine.

Irving P. Ackerman, M.D., Clinical Associate in Medicine.

Lucile F. Adamson, Ph.D., Associate in Biological Chemistry in the Department of Medicine.

Chester A. Alper, M.D., Associate in Medicine at The Children's Hospital.

David H. Alpers, M.D., Associate in Medicine at the Massachusetts General Hospital.

George E. Altman, M.D., Clinical Associate in Medicine.

Ronald A. Arky, M.D., Associate in Medicine.

C. Cabell Bailey, M.D., Clinical Associate in Medicine.

G. Octo Barnett, M.D., Associate in Medicine at the Massachusetts General Hospital.

Samuel B. Beaser, M.D., Clinical Associate in Medicine.

Daniel S. Bernstein, M.D., Associate in Medicine.

Kurt J. Bloch, M.D., Associate in Medicine at the Massachusetts General Hospital.

Richard A. Bloomfield, M.D., Clinical Associate in Medicine.

Nancy L. R. Bucher, M.D., Clinical Associate in Medicine.

Walter R. Burack, M.D., Clinical Associate in Medicine (on leave July 1, 1967 through June 30, 1968).

James R. Carter, Jr., M.D., Associate in Medicine at the Massachusetts General Hospital, and Tutor in Medical Science.

Robert W. Colman, M.D., Associate in Medicine at the Massachusetts General Hospital.

Perry J. Culver, M.D., Clinical Associate in Medicine, and Associate Dean of the Faculty of Medicine for Admissions.

Frank F. Davidoff, M.D., Associate in Medicine at the Beth Israel Hospital.

A. Ivins De Friez, M.D., Clinical Associate in Medicine.

Roman W. DeSanctis, M.D., Clinical Associate in Medicine.

David S. Feingold, M.D., Associate in Medicine at the Beth Israel Hospital.

Jerome W. Fischbein, M.D., Clinical Associate in Medicine.

Gerald S. Foster, M.D., Clinical Associate in Medicine.

Paul Fremont-Smith, M.D., Clinical Associate in Medicine.

Allan L. Friedlich, M.D., Clinical Associate in Medicine.

Ralph S. Goldsmith, M.D., Associate in Medicine, and Tutor in Medical Science.

A. Arthur Gottlieb, M.D., Associate in Medicine.

Gareth M. Green, M.D., Associate in Medicine.

Warren R. Guild, M.D., Clinical Associate in Medicine.

Victor Gurewich, M.D., Clinical Associate in Medicine.

Arthur P. Hall, M.D., Clinical Associate in Medicine.

Audrey E. V. Haschemeyer, Ph.D., Associate in Biological Chemistry in the Department of Medicine at the Massachusetts General Hospital.

Dorothea E. W. Hellman, M.D., Clinical Associate in Medicine (resigned August 31, 1967).

Emanuel S. Hellman, M.D., Clinical Associate in Medicine.

Edgar C. Henshaw, M.D., Associate in Medicine.

William B. Hood, Jr., M.D., Associate in Medicine (from November 1, 1967).

Bernard M. Jacobson, M.D., Clinical Associate in Medicine.

Jeremias H. R. Kagi, M.D., Associate in Medicine.

Homayoun Kazemi, M.D., Associate in Medicine at the Massachusetts General Hospital.

Rita M. Kelley, M.D., Clinical Associate in Medicine.

Bernard Kliman, M.D., Associate in Medicine at the Massachusetts General Hospital.

Hugh H. Kopald, M.D., Clinical Associate in Medicine (resigned July 31, 1967).

David P. Lauler, M.D., Associate in Medicine.

Leah M. Lowenstein, M.D., Ph.D., Associate in Medicine

Dudley Merrill, M.D., Clinical Associate in Medicine.

John A. Mills, M.D., Associate in Medicine at the Massachusetts General Hospital.

Eugene Morkin, Jr., M.D., Associate in Medicine.

John M. Moses, M.D., Associate in Medicine at the Massachusetts General Hospital.

H. Richard Nesson, M.D., Clinical Associate in Medicine.

Thomas F. O'Brien, M.D., Clinical Associate in Medicine.

Donald E. Oken, M.D., Associate in Medicine at the Peter Bent Brigham Hospital.

Maurice M. Pechet, Ph.D., M.D., Associate in Medicine at the Massachusetts General Hospital.

George M. Pike, M.D., Clinical Associate in Medicine.

Gerald R. Plotkin, M.D., Clinical Associate in Medicine (resigned August 31, 1967).

Walter W. Point, M.D., Clinical Associate in Medicine.

Curtis Prout, M.D., Clinical Associate in Medicine.

Mitchell T. Rabkin, M.D., Associate in Medicine at the Beth Israel Hospital.

Kurt Randerath, M.D., Associate in Biological Chemistry in the Department of Medicine at the Massachusetts General Hospital.

Paul R. Reich, M.D., Associate in Medicine at the Beth Israel Hospital.

Frank F. Richards, M.B., Ch.B., M.D., Associate in Medicine at the Massachusetts General Hospital.

Dwight R. Robinson, M.D., Associate in Biological Chemistry in the Department of Medicine at the Massachusetts General Hospital.

Stephen H. Robinson, M.D., Associate in Medicine.

Irwin H. Rosenberg, M.D., Associate in Medicine.

Leon D. Sabath, M.D., Associate in Medicine.

Seymour M. Sabesin, M.D., Associate in Medicine at the Massachusetts General Hospital.

Walter T. St. Goar, M.D., Clinical Associate in Medicine.

Guillermo C. Sanchez, M.D., Clinical Associate in Medicine.

Charles A. Sanders, M.D., Associate in Medicine at the Massachusetts General Hospital.

Arthur A. Sasahara, M.D., Clinical Associate in Medicine.

Stuart F. Schlossman, M.D., Associate in Medicine at the Beth Israel Hospital.

Peter B. Schneider, M.D., Associate in Medicine at the Beth Israel Hospital.

Peter H. Schur, M.D., Associate in Medicine at the Robert B. Brigham Hospital.

William J. Shriber, M.D., Clinical Associate in Medicine.

Victor W. Sidel, M.D., Associate in Medicine at the Massachusetts General Hospital (on leave July 1, 1967 through June 30, 1968).

Philip J. Snodgrass, M.D., Associate in Medicine and Henry A. and Camillus Christian Fellow in Medicine.

Julian G. Snyder, Ph.D., M.D., Clinical Associate in Medicine.

Edward L. Socolow, M.D., Associate in Medicine.

John S. Soeldner, M.D., Associate in Medicine at the Peter Bent Brigham Hospital.

William D. Sohier, Jr., M.D., Clinical Associate in Medicine.

Norman S. Stearns, M.D., Clinical Associate in Medicine.

Samuel Stearns, M.D., Clinical Associate in Medicine.

Jurgen Steinke, M.D., Clinical Associate in Medicine.

Philip R. Steinmetz, M.D., Associate in Medicine at the Beth Israel Hospital.

Mary L. Stephenson, Ph.D., Associate in Biological Chemistry in the Department of Medicine.

George P. Sturgis, M.D., Clinical Associate in Medicine.

Melvin I. Sturnick, M.D., Clinical Associate in Medicine.

Marvin L. Tanzer, M.D., Associate in Medicine at the Massachusetts General Hospital.

Samuel O. Thier, M.D., Associate in Medicine at the Massachusetts General Hospital.

Arnold N. Weinberg, M.D., Associate in Medicine at the Massachusetts General Hospital.

Edwin O. Wheeler, M.D., Clinical Associate in Medicine.

Conger Williams, M.D., Clinical Associate in Medicine.

Kenneth A. Woeber, M.B., Ch.B., M.D., Associate in Medicine.

Richard Wolff, M.D., Clinical Associate in Medicine.

Raymond F. Baddour, Sc.D., Visiting Lecturer on Medicine.

Thomas C. Chalmers, M.D., Lecturer on Medicine.

Carleton B. Chapman, M.D., Lecturer on Medicine.

Ephraim P. Engleman, M.D., Visiting Lecturer on Medicine (from November 1, 1967 through November 30, 1967).

Ian J. Forbes, M.D., Visiting Lecturer on Medicine (from December 1, 1967).

John R. Graham, M.D., Lecturer on Medicine.

Seymour J. Gray, M.D., Ph.D., Lecturer on Medicine.

Russell H. Kesselman, M.D., Lecturer on Mathematical Biology in the Department of Medicine (from August 1, 1967).

Gerald Klatskin, M.D., Visiting Lecturer on Medicine (from November 26, 1967 through December 2, 1967).

Robin D. Marshall, Ph.D., Visiting Lecturer on Medicine.

Walter S. Metcalf, Dr.Phil., Visiting Lecturer on Medicine (from December 1, 1967).

Israel Mirsky, Ph.D., Lecturer on Mathematical Biology in the Department of Medicine (from August, 1967).

Albert O. Seeler, M.D., Lecturer on Medicine.

Nathan Sidel, M.D., Lecturer on Medicine.

John B. Stanbury, M.D., Lecturer on Medicine.

S. William Stanbury, M.B., Ch.B., Visiting Lecturer on Medicine (from October 23, 1967 through October 28, 1967).

Eugene A. Stead, Jr., M.D., Visiting Lecturer on Medicine (from March 6, 1968 through March 14, 1968).

Frederick Stohlman, Jr., M.D., Lecturer on Medicine.

Maurice B. Strauss, M.D., Lecturer on Medicine.

Saul Aronow, Ph.D., Research Associate in Medicine.

Marios C. Balodimos, M.D., Research Associate in Medicine.

Gordon L. Brownell, Ph.D., Research Associate in Medicine.

Renata E. Cathou, Ph.D., Research Associate in Medicine.

Douglas A. Chamberlain, M.B., Ch.B., M.D., Research Associate in Medicine (from January 1, 1968).

Bernard I. Chazan, M.B., Ch.B., Research Associate in Medicine.

Albert R. Christlieb, M.D., Research Associate in Medicine.

William R. Elliott, Ph.D., Research Associate in Medicine (resigned August 15, 1967).

Robert Ferguson, M.B., Ch.B., Research Associate in Medicine.

Michael Field, M.D., Research Associate in Medicine.

Edward V. Filmanowicz, M.D., Research Associate in Medicine.

Barbara C. George, M.D., Research Associate in Medicine.

Irma P. Gigli, M.D., Research Associate in Medicine.

Ray E. Gleason, Ph.D., Research Associate in Mathematical Biology in the Department of Medicine.

Ronald D. Guttmann, M.D., Research Associate in Medicine.

Florence W. Haynes, Ph.D., Research Associate in Medicine.

Andrew H. Henderson, M.B., Ch.B., Research Associate in Medicine.

Norman K. Hollenberg, M.D., Ph.D., Research Associate in Medicine.

Murray V. King, Ph.D., Research Associate in Biological Chemistry in the Department of Medicine.

Howard G. Knuttgen, Ph.D., Research Associate in Medicine.

Aron O. Lurie, M.B., Ch.B., Ph.D., Research Associate in Medicine.

Morelly Maayan, M.D., Research Associate in Medicine.

Mordekhai Moritz, M.D., Research Associate in Medicine.

Hans B. Nevinny-Stickel, M.D., Research Associate in Medicine.

Stephen A. Ockner, M.D., Research Associate in Medicine.

Bernard J. Ransil, Ph.D., M.D., Research Associate in Medicine.

Calvin A. Saravis, Ph.D., Research Associate in Biological Chemistry in the Department of Medicine.

Austin U. Sargent, Ph.D., Research Associate in Medicine.

Eleazar Shafrir, Ph.D., Research Associate in Medicine.

Stephen B. Shohet, M.D., Research Associate in Medicine.

Mary J. Spiro, Ph.D., Research Associate in Medicine.

Allan C. Stam, Jr., M.D., Research Associate in Medicine.

Kathleen Stratton, Ph.D., Research Associate in Medicine.

Herbert J. Sukenik, Ph.D., M.D., Research Associate in Medicine.

Jay M. Sullivan, M.D., Research Associate in Biological Chemistry in the Department of Medicine.

Endre M. Tarjan, Ph.D., Research Associate in Medicine.

John A. Thomson, M.D., Research Associate in Medicine.

Charles W. Urschel, M.D., Research Associate in Medicine.

John Wahren, M.D., Research Associate in Medicine (from September 1, 1967).

Samuel Wilensky, Ph.D., Research Associate in Medicine.

Felix Ades, M.B., Ch.B., Instructor in Medicine.

Sidney Alexander, M.D., Instructor in Medicine.

Julian M. Aroesty, M.D., Instructor in Medicine.

George P. Baker, Jr., M.D., Instructor in Medicine.
Lawrence Baker, M.D., D.M.D., Instructor in Medicine.
Victor G. Balboni, M.D., Instructor in Medicine.
Harry Bass, M.D., Instructor in Medicine, and Tutor in Medical Science.
Edgar D. Bell, Jr., M.D., Instructor in Medicine.
Patricia H. Benedict, M.D., Instructor in Medicine.
Robert S. Blacklow, M.D., Instructor in Medicine.
Howard L. Bleich, M.D., Instructor in Medicine.
Edwin D. Bransome, Jr., M.D., Instructor in Medicine.
Lewis E. Braverman, M.D., Instructor in Medicine.
Caesar Briefer, M.D., Instructor in Medicine.
Robert E. Brownlee, M.D., Instructor in Medicine.
Matthew A. Budd, M.D., Instructor in Medicine.
John B. Cadigan, Jr., M.D., Instructor in Medicine.
Edmund J. Callahan, III, M.D., Instructor in Medicine.
Robert W. Carey, M.D., Instructor in Medicine.
Charles B. Carpenter, M.D., Instructor in Medicine.
Walter H. Caskey, M.D., Instructor in Medicine.
John W. Cass, Jr., Ph.D., M.D., Instructor in Medicine.
Melvin H. Chalfen, M.D., Instructor in Medicine.
Mortimer M. Civan, M.D., Instructor in Medicine.
Milton H. Clifford, M.D., Instructor in Medicine.
Allen L. Cline, M.D., Instructor in Medicine.
Cecil H. Coggins, M.D., Instructor in Medicine.
Jordan J. Cohen, M.D., Instructor in Medicine.
Mark H. Cooley, M.D., Instructor in Medicine.
Augustus T. Crocker, M.D., Instructor in Medicine.
Seth C. Crocker, M.D., Instructor in Medicine.
James F. Cummins, M.D., Instructor in Medicine.
James E. Dalen, M.D., Instructor in Medicine.
Joseph M. St. F. Flanagan, M.B., Ch.B., Instructor in Medicine.
Stanley A. Forwand, M.D., Instructor in Medicine (from October 1, 1967).
William Franklin, M.D., Instructor in Medicine.
Kenneth Fremont-Smith, M.D., Instructor in Medicine.

Robert E. Fuisz, M.D., Instructor in Medicine.
Robert K. Funkhouser, M.D., Instructor in Medicine.
Arthur J. Garceau, M.D., Instructor in Medicine.
H. Jack Geiger, M.D., Instructor in Medicine.
Joseph F. Gerstein, M.D., Instructor in Medicine.
Stephen E. Goldfinger, M.D., Instructor in Medicine.
Joel C. Goldthwait, M.D., Instructor in Medicine.
Kenneth M. Graham, M.D., Instructor in Medicine.
Mortimer S. Greenberg, M.D., Instructor in Medicine.
Joseph S. Gryboski, M.D., Instructor in Medicine.
Edward B. Hager, M.D., Instructor in Medicine.
Earle I. Hammer, M.D., Instructor in Medicine.
Constantine L. Hampers, M.D., Instructor in Medicine.
William G. M. Hardison, M.D., Instructor in Medicine.
J. Warren Harthorne, M.D., Instructor in Medicine.
Joseph J. Herskovits, M.D., Instructor in Medicine.
Carl A. Hirsch, M.D., Instructor in Medicine.
Robert B. Holden, M.D., Instructor in Medicine.
Frank A. Howard, M.D., Instructor in Medicine.
Newton E. Hyslop, Jr., M.D., Instructor in Medicine.
James H. Jackson, M.D., Instructor in Medicine.
Harry S. Jacob, M.D., Instructor in Medicine.
George A. Jacoby, Jr., M.D., Instructor in Medicine (from January 1, 1968).
Paul I. Jagger, M.D., Instructor in Medicine.
Alan L. Kaitz, M.D., Instructor in Medicine.
Andrew H. Kang, M.D., Instructor in Medicine.
Paul A. Kantrowitz, M.D., Instructor in Medicine.
Parnag H. Kasarjian, M.D., Instructor in Medicine.
Jay H. Katz, M.D., Instructor in Medicine.
Sheldon D. Kaufman, M.D., Instructor in Medicine (resigned August 31, 1967).
Alan S. Keitt, M.D., Instructor in Medicine (from January 1, 1968).
Harvey G. Kemp, M.D., Instructor in Medicine.
Melvin I. Klayman, M.D., Instructor in Medicine.

Allan Kliman, M.D., Instructor in Medicine.
Julius Kritzman, M.D., Instructor in Medicine.
David C. Lewis, M.D., Instructor in Medicine.
Arthur J. Lockhart, M.D., Instructor in Medicine.
Jason E. Lucas, D.M.D., M.D., Instructor in Medicine.
George W. Lynch, M.D., Instructor in Medicine.
Joseph E. Mackie, M.D., Instructor in Medicine.
James S. Mansfield, M.D., Instructor in Medicine.
Jacob J. Matloff, M.D., Instructor in Medicine.
Edwin P. Maynard, III, M.D., Instructor in Medicine.
Donald McCaughan, M.B., Ch.B., M.D., Instructor in Medicine.
L. Tillman McDaniel, M.D., Instructor in Medicine.
William F. McNeely, M.D., Instructor in Medicine.
Avard M. Mitchell, Ph.D., M.D., Instructor in Medicine.
Robert S. Morrison, M.D., Instructor in Medicine.
John H. Moxley, III, M.D., Instructor in Medicine, and Assistant to the Dean of the Faculty of Medicine.
Hyman L. Naterman, M.D., Instructor in Medicine.
Larry Nathanson, M.D., Instructor in Medicine.
Ward A. Olsen, M.D., Instructor in Medicine.
Johanna A. Pallotta, M.D., Instructor in Medicine (from September 1, 1967).
Carey M. Peters, M.D., Instructor in Medicine.
Arthur S. Pier, Jr., M.D., Instructor in Medicine.
Robert S. Pinals, M.D., Instructor in Medicine.
Joseph Pines, M.D., Instructor in Medicine.
Anthony J. Piro, M.D., Instructor in Medicine.
Searle B. Rees, M.D., Instructor in Medicine.
Edward S. Rendall, M.D., Instructor in Medicine.
Robert H. Resnick, M.D., Instructor in Medicine.
William A. Richards, M.D., Instructor in Medicine.
Barbara J. Rosen, M.D., Instructor in Medicine.
Howard S. Rubenstein, M.D., Instructor in Medicine.
Dorothy Rubinstein, M.D., Instructor in Medicine.
Thomas J. Ryan, M.D., Instructor in Medicine.
Elliot L. Sagall, M.D., Instructor in Medicine.

Allan I. Sandler, M.D., Instructor in Medicine.
Gordon A. Saunders, M.D., Instructor in Medicine.
Lawrence Saxon, M.D., Instructor in Medicine.
Robert H. Schapiro, M.D., Instructor in Medicine.
John Schulman, Jr., M.D., Instructor in Medicine.
Larry G. Seidl, M.D., Instructor in Medicine.
Norman J. Selverstone, M.D., Instructor in Medicine.
Kenneth I. Shine, M.D., Instructor in Medicine.
James J. Sidd, M.D., Instructor in Medicine.
Irwin Singer, M.D., Instructor in Medicine.
Neal H. Steigbigel, M.D., Instructor in Medicine.
Harold J. Stein, M.D., Instructor in Medicine.
Samuel W. Stein, M.D., Instructor in Medicine.
Lawrence I. Stellar, M.D., Instructor in Medicine.
Richard R. Streiff, M.D., Instructor in Medicine.
Denise J. Strieder, M.D., Instructor in Medicine.
William E. Strole, Jr., M.D., Instructor in Medicine.
Louis W. Sullivan, M.D., Instructor in Medicine.
Robert H. Talkov, M.D., Instructor in Medicine.
Jeremiah G. Tilles, M.D., Instructor in Medicine.
James R. Tillotson, M.D., Instructor in Medicine.
Charles Trey, M.B., Ch.B., Instructor in Medicine.
Donald A. Tucker, M.D., Instructor in Medicine.
Robert B. Ullian, M.D., Instructor in Medicine.
Charles H. Weingarten, M.D., Instructor in Medicine, and Tutor in Medical Science.
Milton M. Weiser, M.D., Instructor in Medicine (from August 1, 1967).
John C. Wells, Jr., M.D., Instructor in Medicine.
Martin J. Wohl, M.D., Instructor in Medicine.
Peter M. Yurchak, M.D., Instructor in Medicine.
Homayoun Amir-Ahmadi, M.B., B.S., Assistant in Medicine (through October 31, 1967).
Peter A. Banks, M.D., Assistant in Medicine.
Peter E. Barry, M.D., Assistant in Medicine.
William H. Birchard, M.D., Assistant in Medicine.

Alan C. Brewster, M.D., Assistant in Medicine.
Anthony F. H. Britten, M.B., Ch.B., Assistant in Medicine (resigned September 30, 1967).
Robert J. Carey, M.D., Assistant in Medicine.
Allen J. Criss, M.D., Assistant in Medicine.
Stephen J. Curtis, M.D., Assistant in Medicine.
John C. Dalton, M.D., Assistant in Medicine.
Saul J. Dobrzinsky, M.D., Assistant in Medicine.
Francis J. Donovan, M.D., Assistant in Medicine.
Joseph L. Dorsey, M.D., Assistant in Medicine.
Morris Dratch, M.D., Assistant in Medicine.
Theodore Feldman, M.D., Assistant in Medicine.
Kenneth H. Gabbay, M.D., Assistant in Medicine.
Michael A. Goldstein, M.D., Assistant in Medicine.
Jacob Gottler, M.D., Assistant in Medicine.
Michael A. Gravallese, Jr., M.D., Assistant in Medicine.
Thomas Harcus, M.B., Ch.B., Assistant in Medicine.
Ernest A. Higgins, Jr., M.D., Assistant in Medicine.
Donald E. Holdsworth, M.D., Assistant in Medicine.
Russell L. Jeffery, M.D., Assistant in Medicine.
William S. Kaden, M.D., Assistant in Medicine.
Charles B. Kahn, M.D., Assistant in Medicine.
Charles S. Keevil, Jr., M.D., Assistant in Medicine.
Lawrence M. Klainer, M.D., Assistant in Medicine (resigned October 31, 1967).
George P. Kozak, M.D., Assistant in Medicine.
Sunil R. Lahiri, M.B., B.S., Assistant in Medicine.
Oliver S. Leland, Jr., M.D., Assistant in Medicine.
Francois Martin, M.D., Assistant in Medicine.
June C. May, M.D., Assistant in Medicine (resigned August 15, 1967).
Myron S. Mazer, M.D., Assistant in Medicine.
Kevin M. McIntyre, M.D., Assistant in Medicine.
Antone A. Medeiros, M.D., Assistant in Medicine.
John Mendelsohn, M.D., Assistant in Medicine.
James J. Mertz, M.D., Assistant in Medicine.

Lawrence M. Miller, M.D., Assistant in Medicine.
Edward W. Moore, M.D., Assistant in Medicine.
Robert L. Morse, M.D., Assistant in Medicine.
Robert E. Olson, M.D., Assistant in Medicine.
Robert K. Osborne, M.D., Assistant in Medicine.
David Paine, M.D., Assistant in Medicine.
Burton J. Polansky, M.D., Assistant in Medicine.
Sholem Postel, M.D., Assistant in Medicine.
Richmond Prescott, M.D., Assistant in Medicine.
Jules R. Schwaber, M.D., Assistant in Medicine.
Paul S. Schwartz, M.D., Assistant in Medicine.
Ben Selling, M.D., Assistant in Medicine.
Albert L. Sheffer, M.D., Assistant in Medicine.
Mamoru Shoji, M.D., Assistant in Medicine.
David L. Singer, M.D., Assistant in Medicine.
John H. Sisson, M.D., Assistant in Medicine.
Richard F. Spark, M.D., Assistant in Medicine.
Oscar E. Starobin, M.D., Assistant in Medicine.
Robert C. Stewart, M.D., Assistant in Medicine.
Richard H. Thurm, M.D., Assistant in Medicine.
Marshall A. Wolf, M.D., Assistant in Medicine.
Neil Abramson, M.D., Research Fellow in Medicine.
William H. Admirand, M.D., Research Fellow in Medicine (from September 1, 1967).
Kurt G. M. Alberti, M.D., Ph.D., Research Fellow in Medicine.
Morton E. Alpert, M.D., Research Fellow in Medicine.
Ezra A. Amsterdam, M.D., Research Fellow in Medicine.
Ronald J. Anderson, M.D., Research Fellow in Medicine.
Joseph L. Andrews, Jr., M.D., Research Fellow in Medicine.
Alan B. Ashare, M.D., Research Fellow in Medicine.
Charles H. Asplen, M.D., Research Fellow in Medicine.
Komanduri M. Ayyangar, Ph.D., Research Fellow in Medicine.
George L. Bailey, M.D., Research Fellow in Medicine.
John S. Banas, Jr., M.D., Research Fellow in Medicine.
Frederick F. Barrett, M.D., Research Fellow in Medicine.
Pierre F. Becker, M.D., Research Fellow in Medicine.

Prem Bhardwaj, M.D., Research Fellow in Medicine (through July 31, 1967).

H. Petrus J. Bloemers, Ph.D., Research Fellow in Medicine.

Guenther Boden, M.D., Research Fellow in Medicine (resigned September 30, 1967).

William E. Braun, M.D., Research Fellow in Medicine.

Melvin C. Britton, M.D., Research Fellow in Medicine.

Harold L. Brooks, M.D., Research Fellow in Medicine.

Romaine R. Bruns, Ph.D., Research Fellow in Medicine.

Hans R. Burgi, M.D., Research Fellow in Medicine (resigned October 31, 1967).

Rogelio E. Catalan, Ph.D., Research Fellow in Medicine (resigned October 31, 1967).

Anthony Cerami, Ph.D., Research Fellow in Medicine (from September 1, 1967).

William L. Chick, M.D., Research Fellow in Medicine.

Judith A. Clayton, Ph.D., Research Fellow in Medicine.

George L. Cohen, M.D., Research Fellow in Medicine.

Linda B. Cohen, Ph.D., Research Fellow in Medicine.

Clelia Collotti, M.D., Research Fellow in Medicine (from September 1, 1967).

Richard A. Cooper, M.D., Research Fellow in Medicine.

Robert J. Craig, M.B., B.S., Research Fellow in Medicine.

Peter E. Dans, M.D., Research Fellow in Medicine.

Terrance M. Daugharty, M.D., Research Fellow in Medicine (resigned December 31, 1967).

Daisy S. De Peralta, M.D., Research Fellow in Medicine.

Donald R. Di Bona, Ph.D., Research Fellow in Medicine.

Gerald F. Di Bona, M.D., Research Fellow in Medicine.

Richard S. Dillon, M.D., Research Fellow in Medicine (through August 31, 1967).

Robert G. Dluhy, M.D., Research Fellow in Medicine.

Michael Doyle, M.D., Research Fellow in Medicine.

Marc H. Dresden, Ph.D., Research Fellow in Medicine.

Dickson B. Dunlap, M.D., Research Fellow in Medicine (through August 31, 1967).

James I. Durodola, M.D., Research Fellow in Medicine (through March 31, 1968).

Leslie M. Eber, M.D., Research Fellow in Medicine.

Marvin Edelman, Ph.D., Research Fellow in Medicine (resigned July 31, 1967).

Murray Epstein, M.D., Research Fellow in Medicine.

Eric A. Espiner, M.B., Ch.B., M.D., Research Fellow in Medicine (through August 31, 1967).

Gerald L. Evans, M.D., Research Fellow in Medicine.

John M. Evanson, M.B., Ch.B., Research Fellow in Medicine (resigned September 30, 1967).

Khaja Fareeduddin, M.B., B.S., Research Fellow in Medicine.

David Farr, M.D., Research Fellow in Medicine.

Allison B. Felarca, M.D., Research Fellow in Medicine.

Stanley Feld, M.D., Research Fellow in Medicine.

Philip Felig, M.D., Research Fellow in Medicine.

James S. Forrester, M.D., Research Fellow in Medicine.

Theodore I. Francis, M.B., B.S., Research Fellow in Medicine.

George L.A. From, M.D., Research Fellow in Medicine.

Pierce Gardner, M.D., Research Fellow in Medicine.

Edmund H. Geschickter, M.D., Research Fellow in Medicine (resigned September 30, 1967).

Aubrey D. Ginsburg, M.B., Ch.B., M.D., Research Fellow in Medicine (from October 15, 1967).

Robert M. Glickman, M.D., Research Fellow in Medicine.

John N. Goldman, M.D., Research Fellow in Medicine.

Maury A. Goldman, M.D., Research Fellow in Medicine.

Marise S. Gottlieb, M.D., Research Fellow in Medicine.

Jerome H. Grossman, M.D., Research Fellow in Medicine.

Elvin Harper, Ph.D., Research Fellow in Medicine (from September 1, 1967).

Edward D. Harris, Jr., M.D., Research Fellow in Medicine.

Robert A. Heinle, M.D., Research Fellow in Medicine.

John W. B. Hershey, Ph.D., Research Fellow in Medicine (resigned August 31, 1967).

John P. Herzog, M.D., Research Fellow in Medicine.

Peter N. Hirschmann, M.Sc., Research Fellow in Medicine (from January 1, 1968).

Bernard Hoop, Jr., Ph.D., Research Fellow in Medicine (from November 1, 1967).

Stephen B. Hulley, M.D., Research Fellow in Medicine.

Takehiko Ide, M.D., Research Fellow in Medicine.

Michel Jeannet, M.D., Research Fellow in Medicine.

Frank E. Jeffrey, M.D., Research Fellow in Medicine.

John J. Jeffrey, Jr., Ph.D., Research Fellow in Medicine (resigned September 30, 1967).

Hugh H. Johnston, Jr., M.D., Research Fellow in Medicine.

Adrian I. Katz, M.D., Research Fellow in Medicine.

Chung-Yong Kim, M.D., Ph.D., Research Fellow in Medicine.

Shin-Ichi Kimata, M.D., Ph.D., Research Fellow in Medicine (from September 1, 1967).

Andrew Y. Kimura, Ph.D., Research Fellow in Medicine.

Madeleine A. Kirchberger, Ph.D., Research Fellow in Medicine.

Ulrich R. Kleeberg, M.D., Research Fellow in Medicine.

Huxley M. Knox-Macauley, M.B., Ch.B., Research Fellow in Medicine (from August, 1967).

Raymond S. Koff, M.D., Research Fellow in Medicine.

Yoko Kojima, M.D., Research Fellow in Medicine (from October 1, 1967).

Raj Kumar, M.B., B.S., Research Fellow in Medicine.

Paul J. Laraia, M.D., Research Fellow in Medicine.

Robert E. Lebson, M.D., Research Fellow in Medicine.

Edmund J. Lewis, M.D., Research Fellow in Medicine (from February 1, 1968).

David M. Linekin, Ph.D., Research Fellow in Medicine.

Manuel Lopez, M.D., Research Fellow in Medicine.

Ezequiel Lopez-Amor, M.D., Research Fellow in Medicine (from November 1, 1967).

Edmund G. Lowrie, M.D., Research Fellow in Medicine.

Wilhelm F. Lubbe, M.D., Research Fellow in Medicine.

Ramkhelmwan Mahabir, M.D., Research Fellow in Medicine.

Joel H. Manchester, M.D., Research Fellow in Medicine.

Denis G. Martin, M.B., Ch.B. Research Fellow in Medicine.
Joseph A. Martino, M.D., Research Fellow in Medicine.
Charles E. McCall, M.D., Research Fellow in Medicine.
Franklin D. McDonald, M.D., Research Fellow in Medicine.
Read F. McGehee, Jr., M.D., Research Fellow in Medicine.
Neil McIntyre, M.B., B.S., Research Fellow in Medicine.
James P. A. McManus, M.B., Ch.B., Research Fellow in Medicine.
Gerald Medoff, M.D., Research Fellow in Medicine.
Judith Medoff, Ph.D., Research Fellow in Medicine.
Orlando L. Meyers, M.B., Ch.B., Research Fellow in Medicine.
George Miller, M.D., Research Fellow in Medicine.
Predrag Milosevic, M.D., Research Fellow in Medicine (resigned November 30, 1967).
Neva Mimica, M.D., Research Fellow in Medicine (from November 1, 1967).
Robert C. Moellering, Jr., M.D., Research Fellow in Medicine.
Bruce E. Morton, Ph.D., Research Fellow in Medicine.
Albert S. Most, M.D., Research Fellow in Medicine.
James J. Murray, M.D., Research Fellow in Medicine.
Allen R. Myers, M.D., Research Fellow in Medicine.
Pradip K. Nandi, Dr.Phil., Research Fellow in Medicine.
Robert M. Neer, M.D., Research Fellow in Medicine.
Claude T. Nuzum, M.D., Research Fellow in Medicine.
Robert K. Ockner, M.D., Research Fellow in Medicine.
Robert P. Orange, M.D., Research Fellow in Medicine.
Oliver E. Owen, M.D., Research Fellow in Medicine.
Willy N. Pachas, M.D., Research Fellow in Medicine.
John A. Paraskos, M.D., Research Fellow in Medicine.
William W. Parmley, M.D., Research Fellow in Medicine.
James J. Pepper, M.D., Research Fellow in Medicine.
Hans F. Pfeiffer, Ph.D., Research Fellow in Medicine (from September 1, 1967).
Jack H. Pincus, Ph.D., Research Fellow in Medicine.
Thomas Pozefsky, M.D., Research Fellow in Medicine.

Luka Rabadjija, M.D., Research Fellow in Medicine (through September 30, 1967).

Alberto Ramirez, M.D., Research Fellow in Medicine (from September 16, 1967).

Alan H. Rapoport, M.D., Research Fellow in Medicine.

Alla R. Reddy, Ph.D., Research Fellow in Medicine.

Samuel Refetoff, M.D., C.M., Research Fellow in Medicine.

Richard E. Reitz, M.D., Research Fellow in Medicine.

Gary L. Robertson, M.D., Research Fellow in Medicine (through August 31, 1967).

Lenor Rojas, M.D., Research Fellow in Medicine.

Leslie Rose, M.D., Research Fellow in Medicine.

Stephen I. Rosenfeld, M.D., Research Fellow in Medicine.

David S. Rosenthal, M.D., Research Fellow in Medicine.

Shaun J. Ruddy, M.D., Research Fellow in Medicine.

Neil B. Ruderman, M.D., Research Fellow in Medicine.

James D. Russell, Ph.D., Research Fellow in Medicine (from October 1, 1967).

Martin Sarner, M.B., Research Fellow in Medicine.

Badri N. Saxena, M.D., Research Fellow in Medicine.

Holger Schmid-Schonbein, M.D., Research Fellow in Medicine (from September 1, 1967).

Peter Schofield, Dr.Phil., Research Fellow in Medicine.

Paul H. Schreibman, M.D., Research Fellow in Medicine.

Theodore R. Schrock, M.D., Research Fellow in Medicine.

Howard J. Schwartz, M.D., Research Fellow in Medicine.

Isam H. Shehadeh, M.D., Research Fellow in Medicine.

James C. Shelburne, M.D., Research Fellow in Medicine.

Cynthia K. Silbert, M.D., Research Fellow in Medicine.

Alan G. Smith, Ph.D., Research Fellow in Medicine (through August 31, 1967).

Charles B. Smith, M.D., Research Fellow in Medicine.

Peter H. Sonksen, M.B., B.S., Research Fellow in Medicine.

James D. Steinberg, M.D., Research Fellow in Medicine.

Wilma P. Summers, Ph.D., Research Fellow in Medicine (from September 15, 1967).

Hoji Suzuki, M.D., Research Fellow in Medicine (from October 1, 1967).
Richard C. Talamo, M.D., Research Fellow in Medicine.
Kay Tanaka, M.D., Research Fellow in Medicine (resigned September 30, 1967).
Jordan D. Tobin, M.D., Research Fellow in Medicine.
Joseph R. Tucci, M.D., Research Fellow in Medicine (through July 31, 1967).
John Tyberg, Ph.D., Research Fellow in Medicine (from January 1, 1968).
Laercio M. Valenca, M.D., Research Fellow in Medicine.
Martin D. Valentine, M.D., Research Fellow in Medicine.
Egils Ververbrants, M.D., Research Fellow in Medicine.
Francis A. Waldvogel, M.D., Research Fellow in Medicine.
Wayne A. Wallace, M.D., Research Fellow in Medicine.
Leonard Wartofsky, M.D., Research Fellow in Medicine.
Dale A. Webster, Ph.D., Research Fellow in Medicine.
Richard L. Weinstein, M.D., Research Fellow in Medicine.
John F. Whitcomb, M.D., Research Fellow in Medicine.
James N. Wilfert, M.D., Research Fellow in Medicine (from September 1, 1967).
Gordon H. Williams, M.D., Research Fellow in Medicine.
Robert F. Williams, M.D., Research Fellow in Medicine.
Dana E. Wilson, M.D., Research Fellow in Medicine.
Richard P. Zimon, M.D., Research Fellow in Medicine.
Raj K. Anand, M.B., B.S., M.D., Teaching Fellow in Medicine.
Robert F. Ashman, M.D., Teaching Fellow in Medicine.
Joseph D. Babb, M.D., Teaching Fellow in Medicine.
Stephen G. Baum, M.D., Teaching Fellow in Medicine.
Clyde H. Beck, Jr., M.D., Teaching Fellow in Medicine.
Laurence H. Beck, M.D., Teaching Fellow in Medicine.
Gerald L. Becker, M.D., Teaching Fellow in Medicine.
Lewis C. Becker, M.D., Teaching Fellow in Medicine.
Harris A. Berman, M.D., Teaching Fellow in Medicine.
George T. Blanch, M.D., Teaching Fellow in Medicine.
Philip R. Boulter, M.D., Teaching Fellow in Medicine.

Alan P. Braun, M.D., Teaching Fellow in Medicine.
Michael S. Brown, M.D., Teaching Fellow in Medicine.
John W. Burnside, M.D., Teaching Fellow in Medicine.
William M. Carleton, M.D., Teaching Fellow in Medicine.
Matthew L. Carr, M.D., Teaching Fellow in Medicine.
Joan I. Casey, M.D., Teaching Fellow in Medicine.
William R. Cashion, Jr., M.D., Teaching Fellow in Medicine.
Ralph M. Colburn, Jr., M.D., Teaching Fellow in Medicine.
David C. Dale, M.D., Teaching Fellow in Medicine.
Gilbert H. Daniels, M.D., Teaching Fellow in Medicine.
Mahlon R. DeLong, M.D., Teaching Fellow in Medicine.
Stephen J. Doctoroff, M.D., Teaching Fellow in Medicine.
David E. Drum, M.D., Teaching Fellow in Medicine.
Kenneth H. Falchuk, M.D., Teaching Fellow in Medicine.
David P. Gilmour, M.D., Teaching Fellow in Medicine.
Myron D. Ginsberg, M.D., Teaching Fellow in Medicine.
Herman A. Godwin, Jr., M.D., Teaching Fellow in Medicine.
Edward J. Goetzl, M.D., Teaching Fellow in Medicine.
Joseph L. Goldstein, M.D., Teaching Fellow in Medicine.
Robert L. Goodman, M.D., Teaching Fellow in Medicine.
Gilman D. Grave, M.D., Teaching Fellow in Medicine.
James M. Hammond, M.D., Teaching Fellow in Medicine.
Charles J. Hatem, M.D., Teaching Fellow in Medicine.
Philip D. Henry, M.D., Teaching Fellow in Medicine.
Norbert Hirschhorn, M.D., Teaching Fellow in Medicine.
John B. Howard, M.D., Teaching Fellow in Medicine.
Gary L. Huber, M.D., Teaching Fellow in Medicine.
Michael H. Humphreys, M.D., Teaching Fellow in Medicine.
David H. Jackson, M.D., Teaching Fellow in Medicine.
Richard A. Johnson, M.D., C.M., Teaching Fellow in Medicine.
Sandra Kammerman, M.D., Teaching Fellow in Medicine.
John A. Kastor, M.D., Teaching Fellow in Medicine.
William N. Kelley, M.D., Teaching Fellow in Medicine.
James M. Kenny, M.D., Teaching Fellow in Medicine.
Robert C. Leinbach, M.D., Teaching Fellow in Medicine.
Howard A. Levin, M.D., Teaching Fellow in Medicine.

Barry W. Levine, M.D., Teaching Fellow in Medicine.
Abram M. London, M.D., Teaching Fellow in Medicine.
Jacob J. Lokich, M.D., Teaching Fellow in Medicine.
John E. Markis, M.D., Teaching Fellow in Medicine.
Henry B. Marsh, M.D., Teaching Fellow in Medicine.
Robert J. Mason, M.D., Teaching Fellow in Medicine.
James C. McFarland, M.D., Teaching Fellow in Medicine.
Robert P. Mogielnicki, M.D., Teaching Fellow in Medicine.
Thomas P. Monath, M.D., Teaching Fellow in Medicine.
Frederick L. Moolten, M.D., Teaching Fellow in Medicine.
Gordon T. Moore, M.D., Teaching Fellow in Medicine.
Jeffrey D. Nason, M.D., Teaching Fellow in Medicine.
Suzanne Oparil, M.D., Teaching Fellow in Medicine.
Mark E. Oren, M.D., Teaching Fellow in Medicine.
Robert L. Owen, M.D., Teaching Fellow in Medicine.
William J. Powell, Jr., M.D., Teaching Fellow in Medicine.
Andre L. Purnode, M.D., Teaching Fellow in Medicine.
Anthony W. Robbins, M.D., Teaching Fellow in Medicine.
Daniel Rosenblum, M.D., Teaching Fellow in Medicine.
Robert H. Rubin, M.D., Teaching Fellow in Medicine.
Lorne A. Runge, M.D., C.M., Teaching Fellow in Medicine.
David B. Sachar, M.D., Teaching Fellow in Medicine.
Jay H. Sanders, M.D., Teaching Fellow in Medicine.
John C. Santos, M.D., Teaching Fellow in Medicine.
H. Denman Scott, M.D., Teaching Fellow in Medicine.
Joel M. Seidman, M.D., Teaching Fellow in Medicine.
Fredric C. Shean, M.D., Teaching Fellow in Medicine.
Neil S. Shore, M.D., Teaching Fellow in Medicine.
Samuel C. Silverstein, M.D., Teaching Fellow in Medicine.
Laurence J. Sloss, M.D., Teaching Fellow in Medicine.
Thomas W. Smith, M.D., Teaching Fellow in Medicine.
Harold C. Sox, Jr., M.D., Teaching Fellow in Medicine.
Reynold Spector, M.D., Teaching Fellow in Medicine.
William B. Stason, M.D., Teaching Fellow in Medicine.
Louis E. Teichholz, M.D., Teaching Fellow in Medicine.
Frank J. Troncale, M.D., Teaching Fellow in Medicine.

Michel B. Vallotton, M.D., Teaching Fellow in Medicine (resigned October 31, 1967).
Michael D. Waterfield, Ph.D., Teaching Fellow in Medicine.
Allan J. Weinstein, M.D., Teaching Fellow in Medicine.
Bruce D. Weintraub, M.D., Teaching Fellow in Medicine.
Stanley H. Wishner, M.D., Teaching Fellow in Medicine.
Steven Wolfson, M.D., Teaching Fellow in Medicine.
Michael G. Worthington, M.D., Teaching Fellow in Medicine.

Affiliated:

Dana L. Farnsworth, M.D., Henry K. Oliver Professor of Hygiene, and Director of University Health Services.
Herman M. Kalckar, M.D., Ph.D., Professor of Biological Chemistry at the Massachusetts General Hospital.
Lewis L. Engel, Ph.D., Professor of Biological Chemistry, and Permanent Faculty Fellow of the American Cancer Society.
Henry M. Fox, M.D., Associate Clinical Professor of Psychiatry.
Roger W. Jeanloz, D.Sc., Associate Professor of Biological Chemistry at the Massachusetts General Hospital.
Edward H. Kass, Ph.D., M.D., Associate Professor of Bacteriology and Immunology.
Edgar B. Taft, M.D., Associate Clinical Professor of Pathology.
Stanley J. Adelstein, M.D., Philip H. Cook Fellow in Radiology, and Assistant Professor of Anatomy.
Sidney Leskowitz, Ph.D., Assistant Professor of Bacteriology and Immunology at the Massachusetts General Hospital.
Sidney V. Rieder, Ph.D., Assistant Professor of Biological Chemistry at the Massachusetts General Hospital.
Benedict F. Massell, M.D., Lecturer on Pediatrics.
Jerome O. Klein, M.D., Assistant Professor of Pediatrics.
William J. Reddy, D.Sc., Associate in Biological Chemistry at the Peter Bent Brigham Hospital.

Required Courses

The time given to the Department of Medicine begins for the entire class in the second half of the second year and continues thereafter so

that each student spends about one third to one quarter of his third and fourth years in the study of medicine. Additional time is provided for instruction in the Departments of Dermatology, Neurology, and Psychiatry. The techniques of instruction by the Department of Medicine include lectures, amphitheatre clinics, laboratory exercises and practical work in outpatient departments and in the hospitals. The major teaching is done with both staff and private patients, with one to four students per instructor so that individual teaching is emphasized. Throughout, an effort is made to correlate the clinical findings with the pathophysiologic disturbances which have resulted in the patient's illness and to establish in the student's mind the importance of care and precision in diagnostic and therapeutic methods as best applied to fellow human beings in our complex society.

Medicine. *Second Year.*—During the second half of the second year, the Department of Medicine in cooperation with the Departments of Pathology, Pharmacology, Surgery, Pediatrics and others participates in the teaching of pathologic physiology. This course provides an integrated approach to understanding the basic principles of disease and includes intensive instruction in laboratory methods and their interpretation. Accompanying the instruction in pathologic physiology, a course is given in the study of the patient by history taking and physical examination. For this instruction, the students are divided into groups of three or four and assigned to the four general hospitals.

Medicine. *Introduction to the Clinic.*—Beginning in the academic year 1964–65 the traditional third year course was replaced by a twelve week course entitled Introduction to the Clinic. This is planned as an intensive training period to provide the student with the essential information, from the patient and from the laboratory, necessary for evaluation, diagnosis and management of the patient's problems. The class is divided among the four major teaching hospitals and the students spend the entire twelve week period at one institution. The teaching time during this twelve week period is divided between Medicine (including Dermatology, Neurology, Pediatrics, and Psychiatry) and Surgery (including Neurosurgery, Obstetrics and Gynecology, Orthopedics, and Urology). The teaching in Medicine is done almost entirely on the wards and in the

outpatient clinics, with students assigned individual patients and their physical examinations and history taking supervised by instructors. In addition to the emphasis on obtaining information from the patients, the students, in small groups of two or three, have conferences with their instructors to discuss pathophysiologic and psychopathologic mechanisms pertaining to their patients. Weekly clinics are conducted by the senior medical staff at each hospital for the students assigned to that hospital.

MEDICINE. *Principal Clinical Year.* — Following the Introduction to the Clinic the students enter the Principal Clinical Year, during which they receive three months of Medicine in one of the four major teaching hospitals. During this period they serve as clinical clerks, functioning together with the intern and resident staff on the wards and in the clinics, and sharing responsibility in the study and treatment of patients under careful supervision. Rounds are made with a senior staff physician and patients are presented and thoroughly discussed.

MEDICINE. *Fourth Year Elective Period.* — The last five months, which follow the Principal Clinical Year, have been set aside to allow the student to take courses of his own choosing. The Department of Medicine offers a wide range of elective courses. The courses are of variable duration, from one to five months. Many one month courses are designed to afford the opportunity for students, individually or in small groups, to work in a specialty area of Medicine so as to broaden and deepen their clinical training. Some courses are offered in collaboration with other departments. Opportunities are provided for research within the Department of Medicine and the student who wishes to devote the total period to research or to various courses focussed on some particular interest may arrange to do so.

Facilities for Instruction

The instruction is given at the Medical School, the Beth Israel Hospital, the Boston City Hospital, the Massachusetts General Hospital and the Peter Bent Brigham Hospital, as well as in several other hospitals devoted to special purposes. In these hospitals abundant and varied clinical material is available for the conduct of numerous exercises.

SECOND YEAR HOURS

Pathologic physiology, including lectures and laboratory exercises. Dr. Freiman (Department of Pathology), Chairman, and Drs. Abelmann, Ingbar, Isselbacher, Jandl, Kazemi, Krane, and other members of the Department of Medicine together with members of the Departments of Pathology, Pharmacology, Surgery, Obstetrics and Gynecology, Pediatrics, Neurology, Psychiatry, and Radiology. 538

Introductory medicine consists largely of instruction in the examination of the patient. Clinical experience is gained by students in groups of three or four assigned to each instructor for three hours on two mornings a week during the second semester. Dr. Chapman (Chairman) and coordinators at the participating hospitals: Dr. Rosoff at the B.I.H.; Dr. Kass at the B.C.H.; Dr. W. H. Baker at the M.G.H.; and Dr. Lauler at the P.B.B.H.

Together, these two courses occupy eight half-days per week during the second semester.

INTRODUCTION TO THE CLINIC

Lectures and clinics on selected topics in internal medicine. Drs. Finland, Hiatt, Leaf, Thorn, and Associates.

Exercises in sections are held in the wards and outpatient departments at the general hospitals connected with the Medical School. The coordinator of this instruction is Dr. Leaf. Directly in charge at the B.I.H., Drs. Robinson and Lewis; at the B.C.H., Drs. Davidson and Abelmann; at the M.G.H., Dr. Foster; and at the P.B.B.H., Dr. Wacker. Students are divided into groups of two or three per instructor and devote one-half of the twelve weeks of Introduction to the Clinic to Medicine.

PRINCIPAL CLINICAL YEAR

Clinical clerkships, three months, at B.I.H. (Drs. Hiatt, Pines, and Associates); B.C.H. (Drs. Finland, Davidson, and Associates); M.G.H. (Dr. Leaf and Associates); P.B.B.H. (Drs. Thorn, Ulmer and Associates).

*Fourth Year Elective Courses**

BLOCK COURSES

501M. Infectious Diseases — Dermatology. Drs. FEINGOLD I. FREEDBERG and ASSOCIATES.
502M. Hematology. Drs. ROBINSON and SCHLOSSMAN.
503M. Gastroenterology. Dr. L. ZETZEL.
505M. Vascular Diseases. Drs. DEYKIN and SALZMAN. (*Same course as Surgery 535M.*)
506M. Cardiology. Drs. A. S. FREEDBERG, KURLAND, LINENTHAL, ZOLL, MORKIN, and R. WOLFF.
508M. Endocrinology and Metabolism. Drs. GOLDBERG, DAVIDOFF, and SCHNEIDER.
509M. Renal and Electrolyte Disorders. Drs. H. FRAZIER and NESSON.
510M. Cardiology. Drs. ABELMANN, ELLIS, and ASSOCIATES.
511M. Diabetes and Metabolism. Drs. HURWITZ, ARKY, and ASSOCIATES.
512M. Endocrinology. Dr. INGBAR and ASSOCIATES.
513M. Hematology. Drs. JANDL, CASTLE, and ASSOCIATES.
514M. Clinical Liver Disease and Gastroenterology. Drs. DAVIDSON, ZAMCHECK, and ASSOCIATES. (*Same course as Pathology 512M.*)
515M. Disturbances of Nutrition in Clinical Medicine. Dr. DAVIDSON and ASSOCIATES.
516M. Kidney Disease and Electrolyte Metabolism. Dr. EARLEY and ASSOCIATES.
517M. Cardiovascular Diseases. Drs. HABER, J. KOCH-WESER, SANDERS, W. G. AUSTEN, and ASSOCIATES.
518M. Diabetes. Dr. MARTIN and ASSOCIATES.
519M. Gastrointestinal Diseases. Dr. ISSELBACHER and ASSOCIATES.
520M. Hematology. Dr. BECK and ASSOCIATES.
521M. Pulmonary Diseases. Dr. KAZEMI and ASSOCIATES.
522M. Renal Diseases. Dr. LEAF and ASSOCIATES.
523M. Thyroid Disease. Dr. MALOOF and ASSOCIATES.
524M. Arthritis. Dr. KRANE and ASSOCIATES.
525M. Endocrinology. Dr. FEDERMAN and ASSOCIATES.
526M. General Endocrinology. Dr. FEDERMAN and ASSOCIATES.
527M. Infectious Disease. Dr. SWARTZ and ASSOCIATES.
528M. Cardiology and Cardiovascular Regulation. Drs. GORLIN, HICKLER, LAULER and SONNENBLICK.
530M. Endocrinology — Metabolism. Drs. CAHILL, SOELDNER, and STEINKE.
531M. Endocrinology — Metabolism. Dr. MARBLE.
532M. Endocrinology — Metabolism. Dr. DINGMAN.
533M. Endocrinology — Metabolism. Drs. LAULER and THORN.
534M. Endocrinology — Metabolism. Dr. SELENKOW.
535M. Gastroenterology. Dr. SNODGRASS and ASSOCIATES.

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

536M. Hematology. Dr. W. Moloney.
537M. Microbiology. Dr. O'Brien.
538M. Renal and Cardiorenal. Dr. Merrill.
539M. Comprehensive Medical Care. Drs. Farnsworth, Prout, Postel, and Associates of the Health Services of Harvard University.
540M. Dermatology. Dr. I. Freedberg. (*Same course as Dermatology 501M.*)
541M. Functional Anatomy, Biomechanics, and Reconstructive Surgery. Drs. Kermond and Pierce. (*Same course as Orthopedic Surgery 504M.*)
542M. Advanced Internal Medicine. Dr. Finland and Associates.
543M. Advanced Medicine. Drs. Warthin, Littmann, Sasahara, and Associates.
544M. Cardiology, Electrocardiography. Dr. Littmann and Associates.
545M. Infectious Diseases. Drs. Kass, Finland, and Associates.
548M. Clinical Gastrointestinal Disease. Drs. Culver, Ellis, and Point.
549M. Clinical Cardiology. Dr. Dexter.
550M. Clinical Cardiology. Dr. Gorlin.
551M. Advanced Internal Medicine. Dr. Hurwitz and Associates.
552M. General Medicine. Drs. Nichols, E. S. Hellman and Associates.
553M. Ambulatory Medical Care: Planning and Operation. Drs. Davidson, Seidl, and Associates.
554M. Hematology. Dr. Nathan and Associates. (*See also Pediatrics 510M.*)
555M. Tumor Medicine (or Neoplastic Disease). Dr. T. Hall, and Associates.
556M. Rheumatology. Dr. K. F. Austen and Associates.
557M. Infectious Diseases. Drs. Feingold, Kass, Katz, Swartz and O'Brien.
558M. Hematology, Dr. Tullis and Associates.
559M. Oncology. Dr. Tullis and Associates.

LONGITUDINAL COURSES

701. Seminars in Medicine. Dr. Feingold.
703. Atopic Allergic Disease. Dr. Lowell and Associates.
705. Electrocardiography. Dr. H. D. Levine.
706. Microcirculation and Rheology of Blood. Dr. Wells.
707. Endocrinology — Metabolism. Dr. Emerson.
710. Biomathematics. Dr. Bartholomay.
711. Computer Methods. Dr. Bartholomay.
713. Pulmonary Physiology. Dr. Bass.
714. Comprehensive Medical Care. Drs. Farnsworth, Prout, Postel, and Associates of the Health Services of Harvard University.
715. Clinical and Investigative Gastroenterology. Dr. Osborne and Associates and Dr. Zamcheck and Associates. (*Same course as Surgery 703.*)
716. Pharmacotherapeutics. Dr. J. Koch-Weser, Associates, and Members of the Department of Medicine. (*Same course as Pharmacology 702.*)

718. Clinical Pharmacology of Oncolytic and Immunosuppresive Agents. Drs. T. Hall, Farber, and Associates. (*Same course as Interdepartmental Course 751.*)
719. Metabolic Consequences of Neoplasia in Man. Drs. T. Hall, Nathanson, Thorn, Farber, and Associates. (*Same course as Interdepartmental Course 752.*)
720. Hospital Clinical Pharmacology. Dr. T. Hall and Associates. (*Same course as Interdepartmental Course 754.*)

Department of Neurobiology

Stephen W. Kuffler, M.D., A.M. (hon.), M.D. (hon.), Robert Winthrop Professor of Neurobiology, and Head of the Department.

Edwin J. Furshpan, Ph.D., A.M. (hon.), Associate Professor of Neurobiology.

David D. Potter, Ph.D., Associate Professor of Neurobiology, and Tutor in Neurobiology.

Edward A. Kravitz, Ph.D., Assistant Professor of Neurobiology.

Robert B. Bosler, Research Associate in Neurobiology.

Jane Y. C. Chen, B.S., Research Associate in Neurobiology (from September 1, 1967).

Antony O. W. Stretton, Ph.D., Research Associate in Neurobiology (through December 31, 1967).

Vel J. McMahan, II, Ph.D., Instructor in Neurobiology.

Paula M. Orkand, Ph.D., Instructor in Neurobiology.

Judson D. Sheridan, D.Phil., Instructor in Neurobiology.

Clarke R. Slater, Ph.D., Instructor in Neurobiology.

Marlin D. Bownds, Ph.D., Research Fellow in Neurobiology.

Monroe W. Cohen, Ph.D., Research Fellow in Neurobiology.

Hersch M. Gerschenfeld, M.D., Research Fellow in Neurobiology.

Kunitaro Takahashi, M.D., Ph.D., Research Fellow in Neurobiology.

Required Course

Neurobiology A. *First Year.* — Lectures, demonstrations, laboratory exercises, and conferences, given in collaboration with the Department of Anatomy. Structure and function are discussed concurrently and related to each other. The anatomy of the nervous system is described from the level of the fine structure of single cells to surface features of the brain; the physiology from ionic permeability of the nerve cell membrane and synaptic chemistry to integrative activities of the central nervous system. The importance of the cellular connections is emphasized both from physiological and

anatomical points of view; certain well-studied systems are studied in detail.

FIRST YEAR HOURS

Lectures. Drs. KUFFLER, PALAY, and ASSOCIATES. One or two hours per day, Monday through Saturday, during the last five weeks (intensive) of the second semester.

Laboratory work and conferences. Drs. KUFFLER, PALAY, and ASSOCIATES. 178

*Fourth Year Elective Course**

LONGITUDINAL COURSE

701. Physiology and Chemistry of Synaptic Transmission. Drs. KUFFLER, FURSHPAN, D. D. POTTER, and KRAVITZ. (*Same course as Neurobiology 301, Faculty of Arts and Sciences.*)

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

Department of Neurology

Raymond D. Adams, M.D., A.M. (hon.), Bullard Professor of Neuropathology, Head of the Department of Neurology at the Massachusetts General Hospital, and Chairman of the Executive Committee of the Department of Neurology.

Charles F. Barlow, M.D., A.M. (hon.), Bronson Crothers Professor of Neurology, and Head of the Department at The Children's Hospital.

Derek E. Denny-Brown, Dr. Phil., M.D., A.M. (hon.), James Jackson Putnam Professor of Neurology.

Alfred Pope, M.D., Professor of Neuropathology at the McLean Hospital.

Charles M. Fisher, M.D., Associate Clinical Professor of Neurology.

Simeon Locke, M.D., Associate Clinical Professor of Neurology, and Acting Head of the Department at the Boston City Hospital.

Robert S. Schwab, M.D., Associate Clinical Professor of Neurology.

Pierre M. Dreyfus, M.D., Assistant Professor of Neurology at the Massachusetts General Hospital.

Mary L. S. Efron, M.D., Assistant Professor of Neuropathology at the Massachusetts General Hospital (died September 2, 1967).

Samuel H. Epstein, M.D., Assistant Clinical Professor of Neurology.

Cesare T. Lombroso, M.D., Assistant Clinical Professor of Neurology.

Hugo W. Moser, M.D., Assistant Professor of Neurology at the Massachusetts General Hospital.

Edward P. Richardson, Jr., M.D., Assistant Professor of Neuropathology at the Massachusetts General Hospital.

Flaviu C. A. Romanul, M.D., Assistant Professor of Neurology.

Maria Z. Salam, M.D., Assistant Clinical Professor of Neurology.

Murray Sidman, Ph.D., Assistant Professor of Psychology in the Department of Neurology at the Massachusetts General Hospital.

Richard L. Sidman, M.D., Assistant Professor of Neuropathology, and Tutor in Neurology.

William H. Timberlake, M.D., Assistant Clinical Professor of Neurology.

H. Richard Tyler, M.D., Assistant Professor of Neurology.

Karl E. Astrom, M.D., Ph.D., Visiting Assistant Professor of Neuropathology.

Karl Gloning, M.D., Visiting Assistant Professor of Neurology (from October 1, 1967 through January 31, 1968).

Federico R. Jeri, M.D., Visiting Assistant Professor of Neurology (from September 1, 1967).

Barry G. Arnason, M.D., Associate in Neurology at the Massachusetts General Hospital.

Robert W. P. Cutler, M.D., Associate in Neurology.

David M. Dawson, M.D., Associate in Neurology.

Robert G. Feldman, M.D., Clinical Associate in Neurology.

Floyd H. Gilles, M.D., Clinical Associate in Neurology.

Sid Gilman, M.D., Associate in Neurology.

Chaim I. Mayman, M.D., Associate in Neurology at the Beth Israel Hospital.

Vincent P. Perlo, M.D., Clinical Associate in Neurology.

Mary L. L. Scholl, M.D., Clinical Associate in Neurology.

John S. Barlow, S.M., M.D., Research Associate in Neurology.

Ned Feder, M.D., Research Associate in Neuropathology (through August 31, 1967).

Helen H. Hess, M.D., Research Associate in Neuropathology.

Werner Jacobson, M.D., Ph.D., Research Associate in Neuropathology.

Edwin J. Kirk, B.V.Sc., Research Associate in Neurology (from September 15, 1967).

Harry A. Mackay, Ph.D., Research Associate in Psychology in the Department of Neurology.

Michael J. Malone, M.D., Research Associate in Neurology.

Barbara A. Ray, Ph.D., Research Associate in Psychology in the Department of Neurology.

Remedios K. Rosales, M.D., Research Associate in Neuropathology.

Lawrence T. Stoddard, Ph.D., Research Associate in Psychology in the Department of Neurology.

Arthur K. Asbury, M.D., Instructor in Neurology.

Mandel E. Cohen, M.D., Instructor in Neurology.

Laurence J. Embree, M.D., Instructor in Neurology.

Albert C. England, Jr., M.D., Instructor in Neurology.

T. Corwin Fleming, M.D., Instructor in Neurology.

Elizabeth T. Hedley-Whyte, M.D., Instructor in Neuropathology (from January 1, 1968).

Antonio V. Lorenzo, Ph.D., Instructor in Pharmacology in the Department of Neurology.

Howard D. McIntyre, Jr., M.D., Instructor in Neurology.

Leonard D. Osler, M.B., Ch.B., M.D., Instructor in Neurology.

Donald H. Osterberg, M.D., Instructor in Neurology.

Ernest H. Picard, M.D., Instructor in Neurology.

Pasko Rakic, M.D., Instructor in Neuropathology.

Norman P. Rosman, M.D., C.M., Instructor in Neurology.

Frederick J. Samaha, M.D., Instructor in Neurology.

Bertram Selverstone, M.D., Instructor in Neuropathology.

Vivian E. Shih, M.B., Ch.B., Instructor in Neurology.

John F. Sullivan, M.D., Instructor in Neurology (resigned August 14, 1967).

Karel van S. Toll, M.D., Instructor in Neurology.

Parker A. Towle, M.D., Instructor in Neurology.

Gordon V. Watters, M.D., Instructor in Neurology.

Gerald F. Winkler, M.D., Instructor in Neurology.

Robert E. Flynn, M.D., Assistant in Neurology.

Benjamin Matzilevich, M.D., Assistant in Neurology.

Alvan R. Schwartz, M.D., Assistant in Neurology (resigned December 22, 1967).

Israel F. Abroms, M.B., Ch.B., Research Fellow in Neurology.

Bruno Agostini, M.D., Research Fellow in Neuropathology (through March 15, 1968).
Joseph F. Alderete, M.D., Research Fellow in Neurology.
Horatio R. Aldredge, III, M.D., Research Fellow in Neurology.
David M. Anderson, M.D., Research Fellow in Neurology.
John R. Baringer, M.D., Research Fellow in Neuropathology.
Richard P. Boggs, M.D., Research Fellow in Neurology (through July 31, 1967).
Michael J. Bresnan, M.B., Ch.B., Research Fellow in Neurology.
Fredric K. Cantor, M.D., Research Fellow in Neuropathology.
Louis R. Caplan, M.D., Research Fellow in Neurology.
Gerald H. Cohn, M.D., Research Fellow in Neurology (through August 31, 1967).
Joven R. Cuanang, M.D., Research Fellow in Neurology.
George R. DeLong, M.D., Research Fellow in Neurology.
Elizabeth C. Dooling, M.D., Research Fellow in Neurology.
Frank H. Duffy, M.D., Research Fellow in Neurology (resigned January 2, 1968).
Generoso G. Gascon, M.D., Research Fellow in Neurology.
Paul Gertler, M.D., Research Fellow in Neurology.
John F. Griffith, M.D., Research Fellow in Neurology.
John P. Hammerstad, M.D., Research Fellow in Neurology.
Rebecca A. Hanson, M.D., Research Fellow in Neurology.
Kenneth M. Heilman, M.D., Research Fellow in Neurology (from August 1, 1967).
Klaus-Peter Herberg, M.D. (equiv.), Research Fellow in Neurology.
Robert A. P. Kark, M.D., Research Fellow in Neurology.
Thomas L. Kemper, M.D., Research Fellow in Neuropathology.
Donald J. Kurtz, M.D., Research Fellow in Neurology.
Raymond J. Lasek, Ph.D., Research Fellow in Neuropathology
James R. Lehrich, M.D., Research Fellow in Neuropathology.
Jonathan Leicester, M.B., B.S., Research Fellow in Neurology.
Harvey L. Levy, M.D., Research Fellow in Neurology.
James I. Manson, M.B., B.S., Research Fellow in Neurology.
Donald R. McLean, M.D., Research Fellow in Neurology.

Jay P. Mohr, M.D., Research Fellow in Neurology.
Michael J. Moore, M.D., Research Fellow in Neurology.
Neil Morris, M.D., Research Fellow in Neurology.
Jerome V. Murphy, M.D., Research Fellow in Neurology.
Sean F. Murphy, M.B., Ch.B., Research Fellow in Neurology.
Andrea H. Nash, M.D., Research Fellow in Neuropathology.
George Perlstein, M.D., Research Fellow in Neuropathology.
Martin C. Raff, M.D., Research Fellow in Neurology.
Jean J. Rebeiz, M.D., Research Fellow in Neurology (through December 31, 1967).
Joel S. Richmon, M.D., Research Fellow in Neurology.
Sidney Sament, M.B., Ch.B., Research Fellow in Neurology.
James A. Schnur, M.D., Research Fellow in Neurology.
William C. Schoene, M.D., Research Fellow in Neuropathology.
Robert A. T. Scott, M.D., Research Fellow in Neuropathology.
William R. Scott, M.D., Research Fellow in Neuropathology.
Ikuko Shirahige, M.D., Ph.D., Research Fellow in Neurology (from September 1, 1967).
Everard J. Siller, M.D., Research Fellow in Neurology.
Denis Simard, M.D., Research Fellow in Neurology.
S. Robert Snodgrass, M.D., Research Fellow in Neurology.
Alexander M. Spence, M.D., Research Fellow in Neurology.
Vincent P. Sweeney, M.B., Ch.B., Research Fellow in Neurology.
Anibal S. Tejada-Garcia, M.D., Research Fellow in Neurology.
E. Bruce Tomlinson, M.B., B.S., Research Fellow in Neurology.
Antonio J. Vitug, M.D., Research Fellow in Neurology.
Edward R. Wolpow, M.D., Research Fellow in Neurology.
Liza Yessayan, M.D., Research Fellow in Neurology (through October 31, 1967).
Takeo Yogo, M.D., Sc.D., Research Fellow in Neurology.
Ingeborg van Pelt, M.D., Teaching Fellow in Neurology.

Required Courses

Neurology. *Second Year.* — Clinical lectures are given at the Boston City and Massachusetts General Hospitals to the entire class.

The object of the course is to give the student a general knowledge of the principles of diagnosis of diseases of the nervous system as a preparation for later work.

NEUROLOGY. *Introduction to the Clinic.* — Individual instruction in case taking will be given during that part of the twelve-week period assigned to Medicine. Each student will spend approximately six four-hour sessions with his instructor, and will have two orientation lectures in addition.

NEUROLOGY. *Principal Clinical Year.* — A three-week clerkship is required of each student during the Principal Clinical Year and it may be taken at the B.C.H., M.G.H., or C.H.M.C.-P.B.B.H. For this work the more didactic teaching of the second year serves as a necessary preparation. The work is practical in character and brings the student into immediate contact with patients.

SECOND YEAR	HOURS
Clinical lectures. Dr. ADAMS, M.G.H., Dr. LOCKE, B.C.H. and STAFF.	10

INTRODUCTION TO THE CLINIC

Clinical instruction. Dr. ADAMS, M.G.H., Dr. C. F. BARLOW, C.H.M.C., and Dr. LOCKE, B.C.H.	26

PRINCIPAL CLINICAL YEAR

Clinical Clerkship. Dr. ADAMS, M.G.H., Dr. C. F. BARLOW, C.H.M.C., and Dr. LOCKE, B.C.H.	120

Fourth Year Elective Courses *

BLOCK COURSES

502M. Advanced Study in Neuropathology. Dr. ROMANUL. (*Same course as Pathology 513M.*)
503M. Pediatric Neurology. Dr. C. F. BARLOW. (*Same course as Pediatrics 517M.*)
504M. Advanced Study in Clinical Neurology. Dr. TIMBERLAKE.
505M. Advanced Study in Clinical Neurology. Dr. R. D. ADAMS.
506M. Pediatric Neurology. Dr. ADAMS. (*Same course as Pediatrics 522M.*)

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

507M. Pediatric Neurology. Dr. ADAMS. (*Same course as Pediatrics 523M.*)
508M. Pediatric Neurology. Dr. MOSER. (*Same course as Pediatrics 524M.*)
509M. Advanced Study in Neuropathology. Dr. E. P. RICHARDSON. (*Same course as Pathology 514M.*)
510M. Advanced Studies in Clinical Neurology. Dr. TYLER.
511M. Neurology and Preventive Medicine. Dr. POSKANZER. (*Same course as Preventive Medicine 504M.*)
512M. Advanced Studies in Seizure Disorders. Dr. LOMBROSO.

LONGITUDINAL COURSES

701. Advanced Studies in Clinical Neurology. Drs. TYLER, CUTLER, and DAWSON.
702. History and Development of Neurology and the Neurological Sciences. Dr. TYLER.

Neuropathology

Required Course

NEUROPATHOLOGY. *Second Year.* — The course consists of lectures, laboratory work, and demonstrations, amounting to fifty-seven hours. The lectures introduce conceptions of value for the third year courses in neurology and psychiatry and for the neurological parts of courses in internal medicine and in surgery. Microscopical and gross specimens are studied.

SECOND YEAR	HOURS
Lectures and laboratory work. Dr. ADAMS and STAFF. Six times a week, for three and one-half weeks.	57

Fourth Year Elective Courses (See page 168)

Department of Obstetrics and Gynecology

Duncan E. Reid, M.D., A.M. (hon.), William Lambert Richardson Professor of Obstetrics, Kate Macy Ladd Professor of Obstetrics and Gynecology, and Head of the Department of Obstetrics and Gynecology.

George Van S. Smith, M.D., W. H. Baker Professor of Gynecology, and Head of the Division of Gynecology (retired August 31, 1967).

Hilton A. Salhanick, Ph.D., M.D., Professor of Obstetrics and Gynecology.

Somers H. Sturgis, M.D., Clinical Professor of Gynecology.

Howard Ulfelder, M.D., Joe Vincent Meigs Professor of Gynecology.

Charles L. Easterday, M.D., Associate Clinical Professor of Obstetrics and Gynecology.

Francis M. Ingersoll, M.D., Associate Clinical Professor of Gynecology.

Janet W. McArthur, M.D., S.D. (hon.), Associate Clinical Professor of Obstetrics and Gynecology.

Bernardo A. Santamarina, M.D., Associate Clinical Professor of Obstetrics and Gynecology.

Paul A. Younge, M.D., Associate Clinical Professor of Gynecology.

Joseph J. Barlow, M.D., Assistant Professor of Obstetrics and Gynecology.

Christopher J. Duncan, M.D., Assistant Clinical Professor of Obstetrics and Gynecology.

Thomas H. Green, Jr., M.D., Assistant Clinical Professor of Gynecology.

John F. Jewett, M.D., Assistant Clinical Professor of Obstetrics and Gynecology.

Robert W. Kistner, M.D., Assistant Clinical Professor of Obstetrics and Gynecology.

William J. Mulligan, M.D., Assistant Clinical Professor of Obstetrics and Gynecology.

Melvin L. Taymor, M.D., Assistant Clinical Professor of Gynecology.

Robert H. Barker, M.D., Clinical Associate in Obstetrics and Gynecology.

Luke Gillespie, M.D., Associate in Obstetrics and Gynecology at the Boston Hospital for Women (Lying-in Division).

Harold W. Rubin, M.D., Clinical Associate in Obstetrics and Gynecology.

Angelyn A. Konugres, Ph.D., Research Associate in Obstetrics and Gynecology.

John A. MacLaren, Ph.D., Research Associate in Obstetrics and Gynecology.

Leona Zacharias, Ph.D., Research Associate in Obstetrics and Gynecology.

Theodore C. Barton, M.D., Instructor in Obstetrics and Gynecology, and Tutor in Medical Science.

Maurice O. Belson, M.D., Instructor in Obstetrics and Gynecology.

S. Michael Berger, M.B., Ch.B., Instructor in Obstetrics and Gynecology.

Max J. Bulian, M.D., Instructor in Obstetrics and Gynecology.

Louis Burke, M.D., Instructor in Obstetrics and Gynecology.

John J. Driscoll, M.D., Instructor in Obstetrics and Gynecology.

A. Gordon Gauld, M.D., Instructor in Obstetrics and Gynecology.

Sumner H. Gochberg, M.D., Instructor in Obstetrics and Gynecology, and Tutor in Medical Science.

Donald P. Goldstein, M.D., Instructor in Obstetrics and Gynecology.

Arthur C. Gorbach, M.D., Instructor in Obstetrics and Gynecology.

Ward I. Gregg, M.D., Instructor in Gynecology.

Charles T. Griffiths, M.D., Instructor in Obstetrics and Gynecology.

John W. Grover, M.D., Instructor in Obstetrics and Gynecology.
Arthur L. Herbst, M.D., Instructor in Obstetrics and Gynecology.
Crawford H. Hinman, M.D., Instructor in Obstetrics and Gynecology.
Ruby G. Jackson, M.D., C.M., Instructor in Obstetrics and Gynecology.
David E. Kopans, M.D., Instructor in Obstetrics and Gynecology.
Harold J. Kosasky, M.D., Instructor in Obstetrics and Gynecology.
Francis R. Lane, M.D., Instructor in Obstetrics and Gynecology.
Thomas Leavitt, Jr., M.D., Instructor in Obstetrics and Gynecology.
Herbert T. Leighton, M.D., Instructor in Obstetrics and Gynecology.
Jacob Mezer, M.D., Instructor in Obstetrics and Gynecology.
John L. Newell, M.D., Instructor in Obstetrics and Gynecology.
Peter G. Robbins, M.D., Instructor in Obstetrics and Gynecology.
George M. Ryan, Jr., M.D., Instructor in Obstetrics and Gynecology.
Leonard E. Safon, M.D., Instructor in Obstetrics and Gynecology.
Weston F. Sewall, M.D., Instructor in Obstetrics and Gynecology.
Lloyd I. Sexton, M.D., Instructor in Obstetrics and Gynecology.
Sumner A. Smith, M.D., Instructor in Obstetrics and Gynecology.
Bartlett H. Stone, M.D., Instructor in Obstetrics and Gynecology.
Arthur W. Tucker, M.D., Instructor in Obstetrics and Gynecology.
Albert E. Weiner, M.D., Instructor in Obstetrics and Gynecology.
David Weintraub, M.D., Instructor in Obstetrics and Gynecology.

Clement Yahia, M.D., Instructor in Obstetrics and Gynecology.

James H. Austin, M.D., Assistant in Obstetrics and Gynecology.

Herbert E. Brooks, Jr., M.D., Assistant in Obstetrics and Gynecology.

Dick A. J. Brown, M.D., Assistant in Obstetrics and Gynecology.

Robert W. Brown, M.D., Assistant in Obstetrics and Gynecology.

Thomas J. Dowd, M.D., Assistant in Obstetrics and Gynecology

Charles F. Eades, M.D., Assistant in Obstetrics and Gynecology.

Fredric D. Frigoletto, M.D., Assistant in Obstetrics and Gynecology.

Herbert W. Horne, Jr., M.D., Assistant in Obstetrics and Gynecology.

Albert Y. Kevorkian, M.D., Assistant in Gynecology.

Lawrence J. Malone, M.D., Assistant in Obstetrics and Gynecology.

Jack H. Marcovitch, M.D., Assistant in Obstetrics and Gynecology.

Robert Marnoy, M.D., Assistant in Obstetrics and Gynecology.

John B. McCann, M.D., Assistant in Obstetrics and Gynecology.

Joseph H. Phillips, M.D., Assistant in Gynecology.

Seymour Sacks, M.D., Assistant in Obstetrics and Gynecology.

Arthur J. Schramm, M.D., Assistant in Obstetrics and Gynecology.

Phillip Smith, M.D., Assistant in Obstetrics and Gynecology.

Stephen B. Smith, M.D., Assistant in Obstetrics and Gynecology.

Sidney Stahler, M.D., Assistant in Obstetrics and Gynecology.

Joseph S. Wallace, M.D., Assistant in Obstetrics and Gynecology.

Robert E. Wheatley, M.D., Assistant in Obstetrics and Gynecology.

Toshihiro Aono, M.D., Dr.Phil., Research Fellow in Obstetrics and Gynecology.

Ann R. B. Barnes, M.D., Research Fellow in Obstetrics and Gynecology.

Alan N. Fleckner, M.D., Research Fellow in Obstetrics and Gynecology.

Conrado L. Lorenzo, M.D., Research Fellow in Obstetrics and Gynecology.

Najla Naaman, M.D., Research Fellow in Obstetrics and Gynecology (through December 31, 1967).

Tatsuji Ohsawa, M.D., Research Fellow in Obstetrics and Gynecology (through September 30, 1967).

Zeina S. Saba, M.D., Research Fellow in Obstetrics and Gynecology (from September 15, 1967).

Henry W. Vaillant, M.D., Research Fellow in Obstetrics and Gynecology.

Marvin A. Yussman, M.D., Research Fellow in Obstetrics and Gynecology.

Jean A. Arakgui, M.B., Ch.B., Teaching Fellow in Obstetrics and Gynecology.

Ralph D. Aserkoff, M.D., Teaching Fellow in Obstetrics and Gynecology.

David S. Bard, M.D., Teaching Fellow in Obstetrics and Gynecology.

Kenneth E. Blotner, M.D., Teaching Fellow in Obstetrics and Gynecology.

Ernest W. Franklin, III, M.D., Teaching Fellow in Obstetrics and Gynecology (through September 30, 1967).

David A. Horwitz, M.B., Ch.B., Teaching Fellow in Obstetrics and Gynecology (resigned December 4, 1967).

Howard L. Judd, M.D., Teaching Fellow in Obstetrics and Gynecology (through March 31, 1968).

Il Kim, M.D., Teaching Fellow in Obstetrics and Gynecology.

Kenneth I. Scheer, M.D., Teaching Fellow in Obstetrics and Gynecology.

James E. Zuckerman, M.D., Teaching Fellow in Obstetrics and Gynecology (through December 31, 1967).

Required Courses

Obstetrics and Gynecology. *Second Year.* — Whole class exercises in conjunction with the Departments of Medical Science and the several clinical disciplines, covering the broad aspects of the physiology and pathophysiology of reproduction and femaleness. Emphasis is placed on embryology, pathology, and endocrinology of the reproductive systems, both male and female.

Obstetrics and Gynecology. *Introduction to the Clinic.* — Instruction will be given in participation with other clinical departments.

Obstetrics and Gynecology. *Principal Clinical Year.* — The student devotes six weeks to clinical Obstetrics and Gynecology at the Boston City Hospital, the Beth Israel Hospital, the Boston Hospital for Women, and the Massachusetts General Hospital He participates in the management of labor and delivery and takes part in the care of the mother and her infant during their hospital stay. He also receives instruction in the interaction of medical and surgical disease in pregnancy and in gynecological conditions, and assists at operations. In addition, he attends Obstetric and Medical Grand Rounds, Clinicopathological Conferences, and clinical seminars throughout the course.

SECOND YEAR	HOURS
Participation in pathophysiology endocrine system.	18

INTRODUCTION TO THE CLINIC

Practical instruction and seminars in clinical obstetrics and gynecology.

PRINCIPAL CLINICAL YEAR

Clinical obstetrics and gynecology. Drs. Reid, Sturgis, Ulfelder, and Associates. 240

Fourth Year Elective Courses *

BLOCK COURSES

502M. Fertility and Endocrinology. Dr. Mulligan.
503M. Ovarian Endocrinology. Dr. Kistner.

* *See A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

506M. Obstetrical Anesthesia and Analgesia. Dr. J. B. Weiss.

507M. Advanced Obstetrics and Gynecology. Dr. Reid and Associates.

511M. Comprehensive Gynecology. Dr. S. H. Sturgis. (*Same course as Surgery 524M.*)

512M. Gynecologic Endocrinology. Experience in Clinical and Laboratory Diagnosis. Dr. Taymor.

513M. Endocrinology with Special Reference to the Ovary. Drs. Ulfelder, G. S. Richardson, McArthur, and Scully. (*Same course as Surgery 507M.*)

Department of Ophthalmology

David G. Cogan, M.D., Henry Willard Williams Professor of Ophthalmology, Head of the Department, and Director of the Howe Laboratory of Ophthalmology.

W. Morton Grant, M.D., Professor of Ophthalmology at the Massachusetts Eye and Ear Infirmary.

Henry F. Allen, M.D., Associate Clinical Professor of Ophthalmology.

David D. Donaldson, M.D., Associate Clinical Professor of Ophthalmology.

Carl C. Johnson, M.D., Associate Clinical Professor of Ophthalmology.

Jin H. Kinoshita, Ph.D., S.D. (hon.), Associate Professor of Biochemical Ophthalmology.

Toichiro Kuwabara, M.D., A.M. (hon.), Associate Professor of Pathology in the Department of Ophthalmology at the Massachusetts Eye and Ear Infirmary.

Robert D. Reinecke, M.D., Assistant Professor of Ophthalmology at the Massachusetts Eye and Ear Infirmary.

Alfred W. Scott, M.D., Assistant Clinical Professor of Ophthalmology.

Albert E. Sloane, M.D., Assistant Clinical Professor of Ophthalmology.

Taylor R. Smith, M.D., Assistant Clinical Professor of Ophthalmology.

Paul Boeder, Ph.D., Lecturer on Ophthalmology.

Claes H. Dohlman, M.D., Ph.D., Clinical Associate in Ophthalmology.

Charles L. Schepens, M.D., Clinical Associate in Ophthalmology.

Garrett L. Sullivan, M.D., Clinical Associate in Ophthalmology.

Endre A. Balazs, M.D., Lecturer on Ophthalmology.

Russell L. Carpenter, Ph.D., Lecturer on Ophthalmology.

Abraham Pollen, M.D., Lecturer on Ophthalmology.

William M. Haining, M.B., Ch.B., Research Associate in Ophthalmology (through September 30, 1967).
S. Arthur Boruchoff, M.D., Instructor in Ophthalmology.
Harry E. Braconier, M.D., Instructor in Ophthalmology.
Robert J. Brockhurst, M.D., Instructor in Ophthalmology.
John M. Carroll, M.D., Instructor in Ophthalmology.
John M. Hill, M.D., Instructor in Ophthalmology.
Bernard T. Hutchinson, M.D., Instructor in Ophthalmology.
Sumner D. Liebman, M.D., Instructor in Ophthalmology.
Byron S. Lingeman, M.D., Instructor in Opthalmology.
Henry A. Mosher, M.D., Instructor in Ophthalmology.
Charles D. J. Regan, M.D., Instructor in Ophthalmology.
Liane Reif-Lehrer, Ph.D., Instructor in Ophthalmic Research.
Karl Riemer, M.D., Instructor in Ophthalmology.
Richard M. Robb, M.D., Instructor in Ophthalmology.
Baruch J. Sachs, M.D., Instructor in Ophthalmology.
David H. Scott, M.D., Instructor in Ophthalmology.
Earl S. Seale, M.D., Instructor in Ophthalmology.
Richard J. Simmons, M.D., Instructor in Ophthalmology.
Francis J. West, M.D., Instructor in Ophthalmology.
Jeremy B. Whitney, M.D., Instructor in Ophthalmology.
Ernst G. G. Wolf, Ph.D., Instructor in Ophthalmology.
Lloyd M. Aiello, M.D., Assistant in Ophthalmology.
D. Robert Alpert, M.D., Assistant in Ophthalmology.
Richard B. Chapman, M.D., Assistant in Ophthalmology.
Eugene C. Ciccarelli, M.D., Assistant in Ophthalmology.
Thomas P. Cronin, M.D., Assistant in Ophthalmology.
Carl G. Freese, M.D., Assistant in Ophthalmology.
Stephen J. Fricker, M.D., Assistant in Ophthalmology.
George E. Garcia, M.D., Assistant in Ophthalmology.
John R. Gehring, M.D., Assistant in Ophthalmology.
Warren D. Haley, M.D., Assistant in Ophthalmology.
Ralph H. Hinckley, M.D., Assistant in Ophthalmology.
Robert C. Lawlor, M.D., Assistant in Ophthalmology.
John W. McMeel, M.D., Assistant in Ophthalmology.
George M. Olive, Jr., M.D., Assistant in Ophthalmology.

Robert A. Petersen, M.D., Dr.Med.Sci., Assistant in Ophthalmology.

Perry Rosenthal, M.D., Assistant in Ophthalmology.

Donald R. Weis, M.D., Assistant in Ophthalmology.

Michael Wiedman, M.D., Assistant in Ophthalmology.

Mario V. Aquino, M.D., Research Fellow in Ophthalmology (from August 1, 1967).

Leo T. Chylack, Jr., M.D., Research Fellow in Opthalmology.

Steven V. Guzak, Jr., M.D., Research Fellow in Ophthalmology (from August 1, 1967).

Judith A. Jedziniak, Ph.D., Research Fellow in Opthalmology.

Brent W. Lambert, M.D., Research Fellow in Ophthalmology (through September 30, 1967).

Deborah P. Langston, M.D., Research Fellow in Ophthalmology.

Kurt A. Simons, Ed.M., Research Fellow in Ophthalmology (from September 1, 1967).

Thomas A. Weidman, M.S., Research Fellow in Ophthalmology.

Shirley H. Wray, M.B., Ch.B., Ph.D., Research Fellow in Ophthalmology.

Richard F. Brubaker, M.D., Teaching Fellow in Ophthalmology.

William J. Collis, M.D., Teaching Fellow in Ophthalmology (from November 1, 1967).

Joseph C. Kim, M.D., Teaching Fellow in Ophthalmology.

Anthony B. Nesburn, M.D., Teaching Fellow in Ophthalmology.

Ronald C. Pruett, M.D., Teaching Fellow in Ophthalmology (through April 30, 1968).

Arturo R. Quevedo, M.D., Teaching Fellow in Ophthalmology (through April 30, 1968).

Karl F. Stephens, M.D., Teaching Fellow in Ophthalmology (from October 1, 1967).

Richard A. Thoft, M.D., Teaching Fellow in Ophthalmology (through January 31, 1968).

David S. Walton, M.D., Teaching Fellow in Ophthalmology (through January 31, 1968).

David M. Worthen, M.D., Teaching Fellow in Ophthalmology.

Required Courses

OPHTHALMOLOGY. *Introduction to the Clinic.* — Lectures and laboratory sessions.

OPHTHALMOLOGY. *Principal Clinical Year.* — Clinical Ophthalmology.

INTRODUCTION TO THE CLINIC	HOURS
Lectures and laboratory sessions	9

PRINCIPAL CLINICAL YEAR	
Clinical Ophthalmology	40

Fourth Year Elective Courses *

BLOCK COURSE

501M. Ophthalmology. Dr. A. W. SCOTT and ASSOCIATES.

HOWE LABORATORY OF OPHTHALMOLOGY

DAVID G. COGAN, M.D., Henry Willard Williams Professor of Ophthalmology, Head of the Department, and Director of the Howe Laboratory of Ophthalmology.

W. MORTON GRANT, M.D., Professor of Ophthalmology at the Massachusetts Eye and Ear Infirmary.

DAVID D. DONALDSON, M.D., Associate Clinical Professor of Ophthalmology.

JIN H. KINOSHITA, PH.D., S.D. (hon.), Associate Professor of Biochemical Ophthalmology.

TOICHIRO KUWABARA, M.D., A.M. (hon.), Associate Professor of Pathology in the Department of Ophthalmology at the Massachusetts Eye and Ear Infirmary.

ROBERT D. REINECKE, M.D., Assistant Professor of Ophthalmology at the Massachusetts Eye and Ear Infirmary.

WILLIAM M. HAINING, M.B., CH.B., Research Associate in Ophthalmology (through September 30, 1967).

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

John M. Carroll, M.D., Instructor in Ophthalmology.
Bernard T. Hutchinson, M.D., Instructor in Ophthalmology.
Liane Reif-Lehrer, Ph.D., Instructor in Ophthalmic Research.
Stephen J. Fricker, M.D., Assistant in Ophthalmology.
Mario V. Aquino, M.D., Research Fellow in Ophthalmology (from August 1, 1967).
Leo T. Chylack, Jr., M.D., Research Fellow in Ophthalmology.
Steven V. Guzak, Jr., M.D., Research Fellow in Ophthalmology (from August 1, 1967).
Judith A. Jedziniak, Ph.D., Research Fellow in Ophthalmology.
Deborah P. Langston, M.D., Research Fellow in Ophthalmology.
Kurt A. Simons, Ed.M., Research Fellow in Ophthalmology (from September 1, 1967).
Thomas A. Weidman, M.S., Research Fellow in Ophthalmology.
Shirley H. Wray, M.B., Ch.B., Ph.D., Research Fellow in Ophthalmology.

The Howe Laboratory of Ophthalmology was founded in 1927 by the late Dr. Lucien Howe. A sum of money equal to that initially given by Dr. Howe was donated by the Rockefeller Foundation. Laboratory space was provided by the Massachusetts Eye and Ear Infirmary.

The purpose of the Laboratory is to advance ophthalmology; its researches are not restricted to any particular phase of this science. Advantage is taken of the rich clinical material of the Infirmary. While the Laboratory is purely an institution for research, the services of the various members of the staff are available for teaching in the Harvard Medical School and for assistance in the clinical work of the Infirmary.

Department of Orthopedic Surgery

Melvin J. Glimcher, M.D., Edith M. Ashley Professor of Orthopedic Surgery, and Head of the Department at the Massachusetts General Hospital.

William T. Green, M.D., S.D. (hon.), A.M. (hon.), Harriet M. Peabody Professor of Orthopedic Surgery, and Head of the Department at The Children's Hospital.

Thornton Brown, M.D., Associate Clinical Professor of Orthopedic Surgery.

Otto E. Aufranc, M.D., Assistant Clinical Professor of Orthopedic Surgery.

Henry H. Banks, M.D., Assistant Clinical Professor of Orthopedic Surgery.

Jonathan Cohen, M.D., Assistant Clinical Professor of Orthopedic Surgery.

William H. Harris, M.D., Assistant Clinical Professor of Orthopedic Surgery.

Paul W. Hugenberger, M.D., Lecturer on Orthopedic Surgery.

Thomas L. DeLorme, M.D., Clinical Associate in Orthopedic Surgery.

Paul P. Griffin, M.D., Clinical Associate in Orthopedic Surgery.

Arthur M. Pappas, M.D., Clinical Associate in Orthopedic Surgery.

Donald S. Pierce, M.D., Clinical Associate in Orthopedic Surgery.

Clement B. Sledge, M.D., Associate in Orthopedic Surgery at the Massachusetts General Hospital.

Dorothy F. Travis, Ph.D., Associate in Biology in the Department of Orthopedic Surgery at the Massachusetts General Hospital.

Arthur W. Trott, M.D., Clinical Associate in Orthopedic Surgery.

Theodore A. Potter, M.D., Lecturer on Orthopedic Surgery.

Margaret Anderson, M.S., Research Associate in Orthopedic Surgery.

Anthony L. Andrikides, Ph.D., Research Associate in Biological Chemistry in the Department of Orthopedic Surgery.
Elton P. Katz, Ph.D., Research Associate in Biological Chemistry in the Department of Orthopedic Surgery.
Gerald L. Mechanic, Ph.D., Research Associate in Biological Chemistry in the Department of Orthopedic Surgery.
Jerome M. Seyer, Ph.D., Research Associate in Biological Chemistry in the Department of Orthopedic Surgery.
Frank D. Bates, M.D., Instructor in Orthopedic Surgery.
Robert J. Boyd, M.D., Instructor in Orthopedic Surgery.
Robert B. Brendze, M.D., Instructor in Orthopedic Surgery.
Hugh P. Chandler, M.D., Instructor in Orthopedic Surgery.
William N. Jones, M.D., Instructor in Orthopedic Surgery.
William L. Kermond, M.B., B.S., Instructor in Orthopedic Surgery.
J. Drennan Lowell, M.D., Instructor in Orthopedic Surgery.
William R. MacAusland, Jr., M.D., Instructor in Orthopedic Surgery.
James G. Manson, M.B., Ch.B., Instructor in Orthopedic Surgery.
John B. McGinty, M.D., Instructor in Orthopedic Surgery.
Edward A. Nalebuff, M.D., Instructor in Orthopedic Surgery.
Paul I. O'Brien, M.D., Instructor in Orthopedic Surgery.
Eugene E. Record, M.D., Instructor in Orthopedic Surgery.
John A. Reidy, M.D., Instructor in Orthopedic Surgery.
Edward J. Riseborough, M.B., Ch.B., Instructor in Orthopedic Surgery.
Carter R. Rowe, M.D., Instructor in Orthopedic Surgery.
Morten Smith-Petersen, M.D., Instructor in Orthopedic Surgery.
Roderick H. Turner, M.D., Instructor in Orthopedic Surgery.
Robert Ulin, M.D., Instructor in Orthopedic Surgery.
Edwin T. Wyman, Jr., M.D., Instructor in Orthopedic Surgery.
Seymour Zimbler, M.D., Instructor in Orthopedic Surgery.
Willard E. Dotter, M.D., Assistant in Orthopedic Surgery.
Robert E. Leach, M.D., Assistant in Orthopedic Surgery
Philip I. Salib, M.B., Ch.B., Assistant in Orthopedic Surgery.

William R. Torgerson, M.D., Assistant in Orthopedic Surgery.

Marvin S. Weinfeld, M.D., Assistant in Orthopedic Surgery.

John R. Auty, Ph.D., Research Fellow in Orthopedic Surgery.

Ronald E. Barber, B.Sc., B.D.S., Research Fellow in Orthopedic Surgery.

Marijke E. Holtrop, Ph.D., Research Fellow in Orthopedic Surgery (through December 31, 1967).

John E. Kenzora, M.D., Research Fellow in Orthopedic Surgery.

Paddy D. McConaghey, Ph.D., Research Fellow in Orthopedic Surgery (from August 1, 1967).

Panos G. Panagakos, M.D., Research Fellow in Orthopedic Surgery.

Nils W. Rydell, M.D., Research Fellow in Orthopedic Surgery (from September 1, 1967).

Charles A. Shuttleworth, Ph.D., Research Fellow in Orthopedic Surgery (from October 1, 1967).

William H. Thomas, M.D., Research Fellow in Orthopedic Surgery (through September 30, 1967).

Hershey Warshawsky, Ph.D., Research Fellow in Orthopedic Surgery (through August 31, 1967).

Zvi H. Yosipovitch, M.D., Research Fellow in Orthopedic Surgery.

Michael A. Ashworth, M.D., Teaching Fellow in Orthopedic Surgery.

Joseph S. Barr, Jr., M.D., Teaching Fellow in Orthopedic Surgery (from January 1, 1968).

Benjamin E. Bierbaum, M.D., Teaching Fellow in Orthopedic Surgery.

John Cockin, M.B., Ch.B., Teaching Fellow in Orthopedic Surgery.

William T. Green, Jr., M.D., Teaching Fellow in Orthopedic Surgery (through December 31, 1967).

Allen S. Lewis, M.D., Teaching Fellow in Orthopedic Surgery (from April 1, 1968).

Norton H. Lithwick, M.D., Teaching Fellow in Orthopedic Surgery (through March 31, 1968).

Patrick J. Logue, M.D., Teaching Fellow in Orthopedic Surgery (through December 31, 1967).

Richard G. McCollum, M.D., Teaching Fellow in Orthopedic Surgery (through September 30, 1967).

Mohinder A. Mital, M.B., B.S., Teaching Fellow in Orthopedic Surgery (from October 1, 1967 through March 31, 1968).

Won H. Oh, M.D., Teaching Fellow in Orthopedic Surgery (from January 31, 1968).

Elbert W. Schmitt, Jr., M.D., Teaching Fellow in Orthopedic Surgery (from October 1, 1967).

Required Courses

Orthopedic Surgery. *Second Year.* — The department participates in the instruction during the musculoskeletal section of Pathophysiology and in the Examination of the Patient.

Orthopedic Surgery. *Introduction to the Clinic* and *Principal Clinical Year.* — Instruction is given in orthopedic surgery during the Introduction to the Clinic by sectional assignments and by combined sessions at the individual hospitals to which the students are assigned, and during the Principal Clinical Year by clerkships of three weeks duration.

SECOND YEAR	HOURS
Participation in pathophysiology musculoskeletal section.	42†
Participation in Examination of the Patient course.	9

† This figure represents total number of hours scheduled for musculoskeletal section.

INTRODUCTION TO THE CLINIC

Clinical exercises. Drs. Green, Glimcher, Brown, Banks, Trott, O'Brien, Zimbler, and Associates. C.H.M.C., M.G.H., P.B.B.H., B.I.H., and B.C.H. In sections throughout the period. Number of hours varies.

PRINCIPAL CLINICAL YEAR

Ward clerkships. Drs. Green, Glimcher, Brown, Banks, Trott, and Associates. C.H.M.C., M.G.H., P.B.B.H. The three

HOURS

week clerkship is spent either at the Massachusetts General Hospital or at The Children's Hospital Medical Center and Peter Bent Brigham Hospital, with combined exercises for both groups on schedule at The Children's Hospital Medical Center and the Massachusetts General Hospital. 120

Fourth Year Elective Courses *

BLOCK COURSES

501M. Children's Orthopedics. Drs. W. T. Green, Trott, and Associates.
502M. Adult Orthopedics. Drs. W. T. Green, Banks, and Associates.
503M. Children and Adults. Drs. W. T. Green, Banks, and Associates.
504M. Functional Anatomy, Biomechanics, and Reconstructive Surgery. Drs. Kermond and Pierce. (*Same course as Medicine 541M.*)
505M. Clinical Orthopedic Surgery, Fractures, and Trauma. Drs. T. Brown, Aufranc, and Associates.
506M. Skiing Injuries. Dr. Ellison.
507M. Orthopedic Aspects of Rehabilitation. Drs. Turner, Nalebuff, and Chandler.

LONGITUDINAL COURSES

701. Trauma. Drs. Moore, W. T. Green, Banks, Quigley, Matson, Harrison, Vandam, and Morgan. (*Same course as Surgery 706.*)
702. Fractures and Related Trauma. Drs. W. T. Green, Banks, Trott, Quigley, and Associates.

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

Department of Otology and Laryngology

Harold F. Schuknecht, M.D., A.M. (hon.), Walter Augustus Lecompte Professor of Otology, Professor of Laryngology, and Head of the Department.

Allan C. Goodman, Ph.D., Assistant Professor of Audiology in the Department of Otolaryngology at The Children's Hospital.

William W. Montgomery, M.D., Assistant Professor of Otology at the Massachusetts Eye and Ear Infirmary.

Werner D. Chasin, M.D., Associate in Otolaryngology at the Beth Israel Hospital.

John W. Irwin, M.D., Research Associate in Otolaryngology.

Nelson Y. Kiang, Ph.D., Research Associate in Otolaryngology.

Robert S. Kimura, A.B., Research Associate in Otolaryngology.

Walter A. Rosenblith, Ing.Rad., Research Associate in Otology.

Hugo D. Angelini, M.D., Instructor in Otolaryngology.

J. Charles Drooker, M.D., Instructor in Otolaryngology.

Charles F. Ferguson, M.D., Instructor in Otolaryngology.

Carlyle G. Flake, M.D., Instructor in Otolaryngology.

Richard R. Gacek, M.D., Instructor in Otolaryngology.

William L. Hayden, M.D., Instructor in Otolaryngology.

Leo T. Kelly, M.D., Instructor in Anaesthesia in the Department of Otolaryngology.

Robert E. Klotz, M.D., Instructor in Otolaryngology.

Donald K. Lewis, M.D., Instructor in Otolaryngology.

Robert H. Lofgren, M.D., Instructor in Otolaryngology.

Aram Roopenian, M.D., Instructor in Otolaryngology.

Sydney Shore, M.D., Instructor in Otolaryngology.

Alfred D. Weiss, M.D., Instructor in Otolaryngology.

Yale J. Berry, M.D., Assistant in Otolaryngology.

Robert V. Cheren, M.D., Assistant in Otolaryngology.

Robert W. Clubb, D.M.D., M.D., Assistant in Otolaryngology.

Eugene H. Courtiss, M.D., Assistant in Otolaryngology.

Allen G. Edwards, Jr., M.D., Assistant in Otolaryngology.
Roy A. Johnson, M.D., Assistant in Otolaryngology.
Roger S. Kaufman, M.D., Assistant in Otolaryngology.
Donald G. Keamy, M.D., Assistant in Otolaryngology.
John M. Kurkjian, M.D., Assistant in Otolaryngology.
David L. Pierce, M.D., Assistant in Otolaryngology.
Anthony Zovickian, M.D., Assistant in Otolaryngology.
Abdel F. Allam, M.B., Ch.B., Research Fellow in Otolaryngology.
Daiji Ishii, M.D., Research Fellow in Otolaryngology.
Pierre Montandon, M.D., Research Fellow in Otolaryngology.
Radovan Subotic, M.D., D.Sc., Research Fellow in Otolaryngology.
Tadahiko Takahashi, M.D., Research Fellow in Otolaryngology.
Maxwell Abramson, M.D., Teaching Fellow in Otolaryngology.
Charles W. Cummings, M.D., Teaching Fellow in Otolaryngology.
Warren L. Griffin, Jr., M.D., Teaching Fellow in Otolaryngology.
Caesar E. Jackson, M.D., Teaching Fellow in Otolaryngology.
Robert L. Katz, M.D., Teaching Fellow in Otolaryngology.

Affiliated:
John S. Irwin, M.D., Research Associate in Microcirculation, M.I.T.

Required Course

Otology and Laryngology. *Introduction to the Clinic* and *Principal Clinical Year.* — Lectures and clinical instruction at the School and the hospitals.

INTRODUCTION TO THE CLINIC	HOURS
Lectures and Clinical Instruction. Dr. Schuknecht and Associates.	9

PRINCIPAL CLINICAL YEAR HOURS

Clinical Instruction (groups of four or five), Seminars (groups of nine) given at the M.E.E.I. Seminars: Monday, Tuesday, and Wednesday 8:00–9:00 a.m. Clinical Exercises: 9:00 a.m.–12:30 p.m. alternate mornings and one afternoon 1:00–3:00 p.m. Each student has ten sessions of clinical instruction. Dr. SCHUKNECHT and ASSOCIATES. 36

*Fourth Year Elective Courses**

BLOCK COURSES

501M. Clinical Otolaryngology. Dr. SCHUKNECHT and ASSOCIATES.
502M. Advanced Clinical Laryngology. Dr. MONTGOMERY and ASSOCIATES.
503M. Advanced Clinical Otology. Dr. SCHUKNECHT and ASSOCIATES.

LONGITUDINAL COURSE

701. Basic Sciences in Otolaryngology. Dr. SCHUKNECHT and STAFF.

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

Department of Pathology

Arthur T. Hertig, M.D., Shattuck Professor of Pathological Anatomy, and Head of the Department.

Benjamin Castleman, M.D., Professor of Pathology at the Massachusetts General Hospital.

John M. Craig, M.D., Clinical Professor of Pathology.

Gustave J. Dammin, M.D., A.M. (hon.), Elsie T. Friedman Professor of Pathology.

Sidney Farber, M.D., D.Sc. (hon.), M.D. (hon.), S. Burt Wolbach Professor of Pathology.

David G. Freiman, M.D., A.M. (hon.), Professor of Pathology at the Beth Israel Hospital.

William A. Meissner, M.D., Clinical Professor of Pathology.

Richard B. Cohen, M.D., Associate Clinical Professor of Pathology.

Thomas C. Jones, D.V.M., Associate Clinical Professor of Pathology.

Morris J. Karnovsky, M.B., Ch.B., A.M. (hon.), Associate Professor of Pathology, and Tutor in Pathology.

Johannes P. Kulka, M.D., Associate Clinical Professor of Pathology.

Philip M. LeCompte, M.D., Associate Clinical Professor of Pathology.

Guido Majno, M.D., A.M. (hon.), Associate Professor of Pathology.

Agnes B. Russfield, Ph.D., M.D., Associate Clinical Professor of Pathology (on leave July 1, 1967 through June 30, 1968).

Robert E. Scully, M.D., Associate Clinical Professor of Pathology.

Edgar B. Taft, M.D., Associate Clinical Professor of Pathology.

Betty G. Uzman, M.D., Associate Professor of Pathology.

Gordon F. Vawter, M.D., Associate Clinical Professor of Pathology.

Austin L. Vickery, Jr., M.D., Associate Clinical Professor of Pathology.

Leonard Atkins, M.D., Assistant Professor of Pathology at the Massachusetts General Hospital.

James B. Caulfield, M.D., Assistant Professor of Pathology at the Massachusetts General Hospital.

Wallace H. Clark, Jr., M.D., Assistant Professor of Pathology at the Massachusetts General Hospital.

Bradley E. Copeland, M.D., Assistant Clinical Professor of Pathology.

Ramzi S. Cotran, M.D., Assistant Professor of Pathology.

John E. Craighead, M.D., Assistant Professor of Pathology.

Alastair W. Cunningham, M.B., Ch.B., Assistant Professor of Pathology at the Peter Bent Brigham Hospital.

George W. Curtis, M.D., Assistant Clinical Professor of Pathology.

Shirley G. Driscoll, M.D., Assistant Clinical Professor of Pathology.

Martin H. Flax, Ph.D., M.D., Assistant Professor of Pathology at the Massachusetts General Hospital.

Thomas J. Gill, III, M.D., Assistant Professor of Pathology.

Hazel Gore, M.B., Ch.B., Assistant Professor of Pathology.

Earl "E" Hellerstein, M.D., Assistant Professor of Pathology.

Si-Chun Ming, M.D., Assistant Professor of Pathology at the Beth Israel Hospital (resigned August 31, 1967).

Sanford I. Roth, M.D., Assistant Professor of Pathology at the Massachusetts General Hospital.

Stephen M. Shea, M.B., Ch.B., M.D., Assistant Professor of Pathology.

Richard Van Praagh, M.D., Assistant Clinical Professor of Pathology.

Franz von Lichtenberg, M.D., Assistant Professor of Pathology at the Peter Bent Brigham Hospital.

Robert Fienberg, M.D., Lecturer on Pathology.

George E. Foley, D.Sc., Lecturer on Pathology.

Hermann Lisco, M.D., Lecturer on Pathology, and Assistant Dean of the Faculty of Medicine for Student Affairs.

Bernard F. Trum, D.V.M., Lecturer on Veterinary Medicine in the Department of Pathology, Director of the Animal Research Center and Director of the New England Regional Primate Research Center.

Karoly Balogh, M.D., Associate in Pathology at the Massachusetts General Hospital.

Joseph M. Corson, M.D., Associate in Pathology.

Diane W. Crocker, M.D., Associate in Pathology at the Peter Bent Brigham Hospital.

George T. Diamandopoulos, M.D., Associate in Pathology.

Robert L. Ehrmann, M.D., Clinical Associate in Pathology.

Hossein D. Fahimi, M.D., Associate in Pathology.

Harvey Goldman, M.D., Associate in Pathology at the Beth Israel Hospital.

Wallace A. Jones, M.D., Clinical Associate in Pathology.

Merle A. Legg, M.D., C.M., Clinical Associate in Pathology.

Arthur A. Like, M.D., Associate in Pathology.

Edward S. Reynolds, M.D., Associate in Pathology at the Peter Bent Brigham Hospital.

Eveline E. Schneeberger-Keeley, M.D., Associate in Pathology.

Priscilla D. Taft, M.D., Clinical Associate in Pathology.

Hubert J. Wolfe, M.D., Associate in Pathology at the Massachusetts General Hospital.

Gilbert H. Friedell, M.D., Lecturer on Pathology.

Ira Gore, M.D., Lecturer on Pathology.

Leonard S. Gottlieb, M.D., Lecturer on Pathology.

James H. Graham, M.D., Lecturer on Pathology.

Oscar A. Iseri, M.D., Lecturer on Pathology.

Constantine J. Maletskos, Ph.D., Lecturer on Pathology.

Walter G. Putschar, M.D., Lecturer on Pathology.

Stanley L. Robbins, M.D., Lecturer on Pathology.

Andrew S. Abraham, M.D., Research Associate in Pathology.

Eleanor C. Adams, A.B., Research Associate in Pathology.

Richard A. Adams, Ph.D., Research Associate in Pathology.

Rogelio A. Alarcon, M.D., Research Associate in Pathology.
Nestor Bohonos, Ph.D., Research Associate in Pathology (from August 1, 1967).
Mayo E. Brown, Ph.D., Research Associate in Pathology.
John A. Cavins, M.D., Research Associate in Pathology.
Samuel S. Epstein, M.D., Research Associate in Pathology.
Giulio Gabbiani, M.D., Ph.D., Research Associate in Pathology (from November 1, 1967).
Awtar K. Ganju, Ph.D., Research Associate in Pathology.
Lippman H. Geronimus, Ph.D., Research Associate in Pathology.
Masando Hayashi, M.D., Ph.D., Research Associate in Pathology.
Ronald D. Hunt, D.V.M., Research Associate in Pathology.
Lorna D. Johnson, M.D., Research Associate in Pathology.
Saul Malkiel, Ph.D., M.D., Research Associate in Pathology.
Robert E. McCarthy, Ph.D., Research Associate in Pathology.
Thomas A. McCoy, Ph.D., Research Associate in Pathology.
Edward J. Modest, Ph.D., Research Associate in Pathology.
Philip Reyes, Ph.D., Research Associate in Pathology (from August 1, 1967).
DeWayne Roberts, Ph.D., Research Associate in Pathology.
Barbara H. Sanford, Ph.D., Research Associate in Pathology.
Sisir K. Sengupta, Ph.D., Research Associate in Pathology.
Henry S. Slayter, Ph.D., Research Associate in Pathology.
Tien-Wen Tao Wiedman, Ph.D., Research Associate in Pathology.
George Yerganian, Ph.D., Research Associate in Pathology.
Nolton H. Bigelow, M.D., Instructor in Pathology.
Harry W. Carter, M.D., Instructor in Pathology.
Roger A. Cote, M.D., Instructor in Pathology.
Charles J. De Wan, M.D., Instructor in Pathology.
Harold F. Dvorak, M.D., Instructor in Pathology (from August 1, 1967).
Jules Edlow, M.D., Instructor in Pathology (resigned July 31, 1967).
Donald Feldman, M.D., Instructor in Pathology.
Edward O. Fox, M.D., Instructor in Pathology.

James M. Gibson, M.D., Instructor in Pathology.
Charles E. Gilmore, D.V.M., Instructor in Pathology.
Joseph S. Incze, M.D., Instructor in Pathology.
Hubert Jockin, M.D., Instructor in Pathology.
Isao Katayama, M.D., Ph.D., Instructor in Pathology.
Irwin K. Kline, M.D., Instructor in Pathology.
Tilde S. Kline, M.D., Instructor in Pathology.
George Kury, M.D., Instructor in Pathology.
Olga C. Leary, M.D., Instructor in Pathology.
Avis J. Lingeman, M.D., Instructor in Pathology.
Joseph C. Merriam, Jr., M.D., Instructor in Pathology.
Pen-ming L. Ming, M.D., Instructor in Pathology (resigned August 31, 1967).
Miriam Moldveen, M.D., Instructor in Pathology.
Arthur E. O'Dea, M.D., Instructor in Pathology.
John A. Peters, M.D., Instructor in Pathology.
Charles R. Robinson, M.B., Ch.B., Instructor in Pathology.
Seymour Rosen, M.D., Instructor in Pathology (from October 1, 1967).
Russell B. Street, Jr., M.D., Instructor in Pathology.
Joe Suyemoto, M.D., Instructor in Pathology.
Don K. Weaver, M.D., Instructor in Pathology.
Carol J. Amick, M.D., Assistant in Pathology.
Albert E. Anderson, M.D., Assistant in Pathology.
George K. Baer, M.D., Assistant in Pathology.
George J. Busch, M.D., Assistant in Pathology.
George R. Dickersin, M.D., Assistant in Pathology.
Arthur W. Duff, M.D., Assistant in Pathology.
George W. Evans, M.D., Assistant in Pathology.
Eleonora G. Galvanek, M.D., Assistant in Pathology (from September 1, 1967).
Robert S. Harper, M.D., Assistant in Pathology.
Carl A. Harris, Ph.D., M.D., Assistant in Pathology.
Lewis P. James, Jr., M.D., Assistant in Pathology.
David H. Kessel, Ph.D., Assistant in Pathology.
Robert M. Lewis, D.V.M., Assistant in Pathology.

Houchidar C. Maneche, M.D., Assistant in Pathology.
Kilmer S. McCully, M.D., Assistant in Pathology.
William F. O'Toole, M.D., Assistant in Pathology.
Jane F. Pascale, M.D. Assistant in Pathology.
L. Hedda Rev-Kury, M.D., Assistant in Pathology.
Monira K. Rifaat, M.B., Ch.B., Assistant in Pathology.
Luke G. Tedeschi, M.D., Assistant in Pathology.
Bernard C. Zook, D.V.M., Assistant in Pathology.
Solon R. Cole, M.D., Research Fellow in Pathology.
Donald V. Cramer, D.V.M., Research Fellow in Pathology (from October 1, 1967).
Frederick R. Davey, M.D., Research Fellow in Pathology.
Martin L. Falxa, Ph.D., Research Fellow in Pathology.
Donald H. Kelley, M.D., Research Fellow in Pathology.
Norval W. King, Jr., D.V.M., Research Fellow in Pathology.
Mogens Knoth, M.D., Research Fellow in Pathology (from October 1, 1967).
Kaethe Kretschmer, M.D., Research Fellow in Pathology.
Charles T. Ladoulis, M.D., Research Fellow in Pathology.
Irwin Leav, D.V.M., Research Fellow in Pathology.
Yumiko Ohta, Ph.D., Research Fellow in Pathology.
David S. Papermaster, M.D., Research Fellow in Pathology.
Sixto Recavarren, M.D., Research Fellow in Pathology.
Rodney L. Robinson, D.V.M., Research Fellow in Pathology.
Alan L. Schiller, M.D., Research Fellow in Pathology.
Simon J. Simonian, M.B., B.S., Research Fellow in Pathology.
Jerome H. Smith, M.D., Research Fellow in Pathology.
Kurt J. Stromberg, M.D., Research Fellow in Pathology.
Donald A. Antonioli, M.D., Teaching Fellow in Pathology.
Robert W. Bain, M.D., Teaching Fellow in Pathology.
Gregory A. Brondos, M.D., Teaching Fellow in Pathology.
James R. Brown, M.D., Teaching Fellow in Pathology.
James J. Daly, M.B., Ch.B., Teaching Fellow in Pathology.
Jean Duquella, M.D., Teaching Fellow in Pathology.
John L. Farber, M.D., Teaching Fellow in Pathology.
Christopher H. Fung, M.D., Teaching Fellow in Pathology

James J. Galdabini, M.D., Teaching Fellow in Pathology.
Adi F. Gazdar, M.B., B.S., Teaching Fellow in Pathology.
John F. Greally, M.B., Ch.B., Teaching Fellow in Pathology.
John B. Hobbs, M.B., B.S., Teaching Fellow in Pathology.
Walter I. Hofman, M.D. Teaching Fellow in Pathology.
Charles G. Huizenga, M.D., Teaching Fellow in Pathology.
Albert R. Keller, M.D., Teaching Fellow in Pathology.
Charles L. Long, M.D., Teaching Fellow in Pathology.
Nadia N. Malouf, M.D., Teaching Fellow in Pathology.
John W. Mason, M.D., Teaching Fellow in Pathology.
Scott McNutt, M.D., Teaching Fellow in Pathology.
Gerald Nash, M.D., Teaching Fellow in Pathology.
Robert O. Petersen, Ph.D., M.D., Teaching Fellow in Pathology.
Vivian W. Pinn, M.D., Teaching Fellow in Pathology.
Manjeri A. Venkatachalam, M.B., B.S., Teaching Fellow in Pathology.
Ronald S. Weinstein, M.D., Teaching Fellow in Pathology.
Gary M. Williams, M.D., Teaching Fellow in Pathology.
Roger A. Williams, M.D., Teaching Fellow in Pathology.
Dinah T. Yu, M.B., Teaching Fellow in Pathology.

Affiliated:

Edward S. Murray, M.D., M.P.H., Professor of Microbiology, School of Public Health.

John C. Snyder, M.D., Professor of Public Health Bacteriology, and Dean of the School of Public Health.

Samuel D. Bell, Jr., M.D., M.P.H., Associate Professor of Microbiology, School of Public Health.

Eli Chernin, S.D., Associate Professor of Tropical Public Health, School of Public Health.

Edward H. Kass, M.D., Ph.D., Associate Professor of Bacteriology and Immunology.

Carolyn Cohen, Ph.D., Lecturer on Biophysics at The Children's Hospital.

Shou-Cheng J. Fu, Ph.D., Research Associate in Biological Chemistry.

MERVYN ISRAEL, PH.D., Research Associate in Biological Chemistry.
HOWARD S. RUBENSTEIN, M.D., Instructor in Medicine.

Required Course

PATHOLOGY A. *Second Year.* — The second year course in pathology is planned as a systematic survey of pathology. It consists of lectures, laboratory study of pathologic histology and demonstrations of gross pathologic material, partly as fixed specimens, but more extensively as demonstrations of fresh autopsy and surgical material brought from the laboratories of the affiliated hospitals. Students visit the Pathology Laboratories of the Boston City Hospital, Massachusetts General Hospital, Peter Bent Brigham Hospital, Children's Hospital, Beth Israel Hospital, New England Deaconess Hospital, Boston Hospital for Women, and the South Huntington Avenue Veterans Hospital, for participation in performance of autopsies.

Lectures are given three days in the week by the staff. The course is divided roughly, though not sharply, into general and special pathology, covering in the first part of the year basic pathologic processes, such as tissue injury and repair, inflammation, tissue responses to specific infectious agents and neoplasia. Special pathology is integrated with the other second year courses and designated as Pathologic Physiology. Eight organs or systems will be thus considered during the present academic year: hematopoietic system, kidney, cardiovascular system, respiratory system, gastrointestinal system, endocrine-reproductive system, musculoskeletal, and nervous system. The pathology of the eye and oral cavity are covered in collaboration with other departments of the University.

Courses in parasitology and neuropathology are given separately by the Department of Tropical Public Health of the Harvard School of Public Health and the Department of Neurology respectively. Neuropathology is, however, one of the component parts of the multi-departmental course, Pathologic Physiology.

SECOND YEAR	HOURS
Lectures. Dr. HERTIG and ASSOCIATES.	
Laboratory work. Dr. HERTIG and ASSOCIATES.	350†

† This figure includes Parasitology and Neuropathology.

Fourth Year Elective Courses *

BLOCK COURSES

501. Advanced Pathology. Dr. DAMMIN.
502. Gynecologic Pathology. Dr. J. M. CRAIG.
503. Fetal and Obstetrical Pathology. Dr. J. M. CRAIG.
504. Advanced Pathology. Drs. COTRAN and GOTTLIEB.
505. Advanced Pathology. Drs. CASTLEMAN and E. B. TAFT.
506. Advanced Pathology. Drs. CASTLEMAN and E. B. TAFT.
507. Advanced Pathology. Dr. FREIMAN.
508. Advanced Pathology. Dr. FARBER.
509. Pathology of Tumors. Dr. MEISSNER.
510. Pathology of Endocrine Diseases. Dr. MEISSNER.
511M. Pathology of Skin — Clinical and Microscopic Correlations. Drs. FITZPATRICK and W. CLARK. (*Same course as Dermatology 503M.*)
512M. Clinical Liver Disease and Gastroenterology. Drs. DAVIDSON, ZAMCHECK and ASSOCIATES. (*Same course as Medicine 514M.*)
513M. Advanced Study in Neuropathology. Dr. ROMANUL. (*Same course as Neurology 502M.*)
514M. Advanced Study in Neuropathology. Dr. E. P. RICHARDSON. (*Same course as Neurology 509M.*)

LONGITUDINAL COURSE

701. Neoplasms of Melanocytes and Related Problems in Cutaneous Pathology. Dr. W. CLARK. (*Same course as Dermatology 704.*)

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

DIVISION OF LEGAL MEDICINE — DEPARTMENT OF PATHOLOGY

LEONARD ATKINS, M.D., Assistant Professor of Pathology at the Massachusetts General Hospital.

Required Course

Principal Clinical Year. — Fourteen lectures. The relationship of the physician to organized society. Laws and legal principles relating to the practice of medicine. Medical evidence and its relation to the administration of justice. Principles of forensic pathology and toxicology. Lectures.

PRINCIPAL CLINICAL YEAR	HOURS
Lectures. Dr. ATKINS and ASSOCIATES. H.M.S. Fourteen Wednesday afternoons, at 4.15 P.M.	14

Department of Pediatrics

Charles A. Janeway, M.D., A.M. (hon.), M.D. (hon.), Thomas Morgan Rotch Professor of Pediatrics, and Head of the Department at The Children's Hospital.

Nathan B. Talbot, M.D., Charles Wilder Professor of Pediatrics, and Head of the Department at the Massachusetts General Hospital.

William Berenberg, M.D., Clinical Professor of Pediatrics.

Thomas E. Cone, Jr., M.D., Clinical Professor of Pediatrics.

Louis K. Diamond, M.D., Professor of Pediatrics at The Children's Hospital.

J. Roswell Gallagher, M.D., Clinical Professor of Pediatrics (resigned August 31, 1967).

Alexander S. Nadas, M.D., Clinical Professor of Pediatrics.

Harry Shwachman, M.D., Clinical Professor of Pediatrics.

Clement A. Smith, M.D., A.M. (hon.), M.D. (hon.), Professor of Pediatrics at the Boston Hospital For Women (Lying-in Division), and Chairman of the Executive Committee of the Departments of Pediatrics.

John D. Crawford, M.D., Associate Professor of Pediatrics at the Massachusetts General Hospital.

Park S. Gerald, M.D., A.M. (hon.), Associate Professor of Pediatrics at The Children's Hospital.

Benedict F. Massell, M.D., Associate Clinical Professor of Pediatrics.

Robert B. Berg, M.D., Assistant Professor of Pediatrics at the Beth Israel Hospital.

John P. Connelly, M.D., Assistant Clinical Professor of Pediatrics.

John F. Crigler, Jr., M.D., Assistant Professor of Pediatrics at The Children's Hospital.

Allen C. Crocker, M.D., Assistant Clinical Professor of Pediatrics, and Tutor in Medical Science.

Francis X. Fellers, M.D., Assistant Professor of Pediatrics at The Children's Hospital.

Donald C. Fyler, M.D., Assistant Clinical Professor of Pediatrics.

Paul G. Hugenholtz, M.D., Assistant Professor of Pediatrics at The Children's Hospital.

Samuel L. Katz, M.D., Assistant Professor of Pediatrics at The Children's Hospital.

Jerome O. Klein, M.D., Assistant Professor of Pediatrics.

John W. Littlefield, M.D., Assistant Professor of Pediatrics at the Massachusetts General Hospital.

R. Grier Monroe, M.D., Assistant Professor of Pediatrics at The Children's Hospital.

David G. Nathan, M.D., Assistant Professor of Pediatrics at The Children's Hospital, and Tutor in Medical Science.

Nicholas M. Nelson, M.D., Assistant Professor of Pediatrics, and Tutor in Medical Science.

Philip J. Porter, M.D., Assistant Clinical Professor of Pediatrics.

Fred S. Rosen, M.D., Assistant Professor of Pediatrics at The Children's Hospital, and Tutor in Medical Science.

Ralph A. Ross, M.D., Assistant Clinical Professor of Pediatrics.

David H. Smith, M.D., Assistant Professor of Pediatrics at The Children's Hospital.

John Kosa, Ph.D., Lecturer on Sociology in the Department of Pediatrics.

Harry L. Mueller, M.D., Lecturer on Pediatrics.

Victor M. Rosenoer, M.B., B.S., Ph.D., Lecturer on Pediatrics at The Children's Hospital (from August 1, 1967).

Eva J. Salber, M.B., Ch.B., M.D., Lecturer on Pediatrics.

Joel J. Alpert, M.D., Associate in Pediatrics.

T. Berry Brazelton, M.D., Clinical Associate in Pediatrics.

Leo B. Burgin, M.D., Clinical Associate in Pediatrics.

James E. Drorbaugh, M.D., Clinical Associate in Pediatrics.

Walter J. Gamble, M.D., Associate in Pediatrics at The Children's Hospital.

Warren M. Gold, M.D., Associate in Pediatrics at The Children's Hospital, and Tutor in Medical Science.

Allan Goldblatt, M.D., Associate in Pediatrics at the Massachusetts General Hospital.

Sherwin V. Kevy, M.D., Clinical Associate in Pediatrics.

Martin R. Klemperer, M.D., Associate in Pediatrics at The Children's Hospital, and Tutor in Medical Science.

C. Grant LaFarge, M.D., Associate in Pediatrics at The Children's Hospital.

David J. Lang, M.D., Associate in Pediatrics at the Massachusetts General Hospital, and Tutor in Medical Science.

Robert P. Masland, Jr., M.D., Clinical Associate in Pediatrics.

Anna T. Mitus, M.D., Clinical Associate in Pediatrics.

Thomas C. Peebles, M.D., Clinical Associate in Pediatrics.

Dorothy B. Villee, M.D., Associate in Pediatrics, and Tutor in Pediatrics.

Joseph B. Warshaw, M.D., Associate in Pediatrics at the Massachusetts General Hospital (from January 1, 1968).

William D. Winter, Jr., M.D., Clinical Associate in Pediatrics.

Dewitt C. Baldwin, Jr., M.D., Lecturer on Pediatrics.

Sydney S. Gellis, M.D., Lecturer on Pediatrics.

Horace M. Gezon, M.D., Lecturer on Pediatrics.

Robert Klein, M.D., Lecturer on Pediatrics.

Demetrius G. Traggis, M.D., Lecturer on Pediatrics.

Louis Weinstein, Ph.D., M.D., Lecturer on Infectious Diseases.

V. Elving Anderson, Ph.D., Research Associate in Pediatrics (from September 1, 1967 through December 31, 1967).

Irena Antonowicz, Ph.D., Research Associate in Pediatrics.

Lakshmi Das, M.B., B.S., Research Associate in Pediatrics.

Marcellinus A. Fredericks, Ph.D., Research Associate in Pediatrics (from September 1, 1967).

Clementina F. Geiser, M.D., Research Associate in Pediatrics.

Norman I. Gold, Ph.D., Research Associate in Biological Chemistry in the Department of Pediatrics.

Yuet W. Kan, M.B., B.S., Research Associate in Pediatrics.

Mitsuko T. Laforet, M.D., Research Associate in Pediatrics.

Miriam D. Manning, M.D., Research Associate in Pediatrics.

Marshall Melin, Ph.D., Research Associate in Pediatrics.

Helmuth Mentzel, M.D., Research Associate in Pediatrics.
Leon S. Robertson, Ph.D., Research Associate in Sociology in the Department of Pediatrics.
Burhan Say, M.D., Research Associate in Pediatrics.
Thomas W. Adams, M.D., Instructor in Pediatrics.
Barry R. Adels, M.D., Instructor in Pediatrics (from September 1, 1967).
Robert L. Baehner, M.D., Instructor in Pediatrics.
Irving W. Bailit, M.D., Instructor in Pediatrics.
Horace P. Baker, M.D., Instructor in Pediatrics (from September 1, 1967).
Richard S. Baum, M.D., Instructor in Pediatrics.
Euan T. Blanch, M.D., Instructor in Pediatrics.
Gerald E. Bloom, M.D., Instructor in Pediatrics, and Tutor in Medical Science.
John K. Brines, M.D., Instructor in Pediatrics.
Josiah W. Brown, M.D., Instructor in Pediatrics.
James J. A. Cavanaugh, M.D., Instructor in Pediatrics.
William D. Cochran, M.D., Instructor in Pediatrics.
Albert Cohen, M.D., Instructor in Pediatrics.
Karel J. de Haas, M.D., Instructor in Pediatrics.
William A. Dickson, M.D., Instructor in Pediatrics.
William R. Dorsey, M.D., C.M., Instructor in Pediatrics.
Edward C. Dyer, M.D., Instructor in Pediatrics.
LeRoy L. Eldredge, Jr., M.D., Instructor in Pediatrics.
Lawrence J. Essember, M.D., Instructor in Pediatrics.
Nathan H. Fearer, M.D., Instructor in Pediatrics.
Richard I. Feinbloom, M.D., Instructor in Pediatrics.
Arnold D. Fiascone, M.D., Instructor in Pediatrics.
Joseph N. Fisher, Jr., M.D., Instructor in Pediatrics.
Joseph W. Fowler, III, M.D., Instructor in Pediatrics.
Albert A. Frank, M.D., Instructor in Pediatrics.
George M. Gill, M.D., Instructor in Pediatrics.
Elizabeth A. Gregory, M.D., Instructor in Pediatrics.
Andrew D. Guthrie, Jr., M.D., Instructor in Pediatrics.

James E. Haddow, M.D., Instructor in Pediatrics (from September 1, 1967).
Herbert A. Haessler, M.D., Instructor in Pediatrics.
Sprague W. Hazard, M.D., Instructor in Pediatrics.
Margaret C. Heagarty, M.D., Instructor in Pediatrics.
John P. Hubbell, Jr., M.D., Instructor in Pediatrics.
David Ingall, M.D., Instructor in Pediatrics.
John B. Joseph, M.D., Instructor in Pediatrics.
Ellen S. Kang, M.D., Instructor in Pediatrics.
Maurice E. Keenan, M.D., Instructor in Pediatrics (resigned August 31, 1967).
Kon T. Khaw, M.D., Instructor in Pediatrics.
Alexander S. MacDonald, Jr., M.D., Instructor in Pediatrics.
Francis C. McDonald, M.D., Instructor in Pediatrics.
Joseph J. McGovern, M.D., Instructor in Pediatrics.
H. Lester Medlinsky, M.D., Instructor in Pediatrics.
Lawrence S. Morse, M.D., Instructor in Pediatrics.
Donald M. Muirhead, Jr., M.D., Instructor in Pediatrics.
Otto S. Nau, M.D., Instructor in Pediatrics.
Alice C. Nauen, M.D., Instructor in Pediatrics.
Joseph Osborne, M.D., Instructor in Pediatrics.
Eileen M. Ouellette, M.D., Instructor in Pediatrics.
Julian L. Pearlman, M.D., Instructor in Pediatrics.
William Pfeffer, Jr., M.D., Instructor in Pediatrics.
William H. Plauth, Jr., M.D., Instructor in Pediatrics.
Howard J. Potter, M.D., Instructor in Pediatrics.
Daniel R. Rectanus, M.D., Instructor in Pediatrics.
Gertrud C. Reyersbach, M.D., Instructor in Pediatrics.
Stephan L. Reynolds, M.D., Instructor in Pediatrics (resigned August 31, 1967).
Robert H. Richie, Jr., M.D., Instructor in Pediatrics.
John S. Robey, M.D., Instructor in Pediatrics.
Oliver F. Roddey, Jr., M.D., Instructor in Pediatrics.
Jordan S. Ruboy, M.D., Instructor in Pediatrics.
Robert T. Sceery, M.D., Instructor in Pediatrics.
E. Manning Sears, M.D., Instructor in Pediatrics.

Gerald B. Shattuck, M.D., Instructor in Pediatrics.
S. Norman Sherry, M.D., Instructor in Pediatrics.
Irving Silverman, M.D., Instructor in Pediatrics.
Lendon Snedeker, M.D., Instructor in Pediatrics.
Allan B. Stimson, M.D., Instructor in Pediatrics.
Herbert S. Strauss, M.D., Instructor in Pediatrics.
Harry B. Stults, Jr., M.D., Instructor in Pediatrics.
George H. Taft, M.D., Instructor in Pediatrics.
Rudolf Toch, M.D., Instructor in Pediatrics.
John T. Truman, M.D., Instructor in Pediatrics.
William J. Turtle, M.D., Instructor in Pediatrics.
John W. G. Tuthill, M.D., Instructor in Pediatrics.
Irving Umansky, M.D., Instructor in Pediatrics.
Wilhelmina M. Van Dyke, M.D., Instructor in Pediatrics.
Willem vanPelt, M.D., Instructor in Pediatrics.
Stella Z. Van Praagh, M.D., Instructor in Pediatrics.
Jacob Wallace, M.D., Instructor in Pediatrics.
Richard H. Watson, M.D., Instructor in Pediatrics.
Wladimir Wertelecki, M.D., Instructor in Pediatrics.
Harold J. Wheeler, M.D., Instructor in Pediatrics.
Catherine M. Wilfert, M.D., Instructor in Pediatrics.
Mary E. B. Wohl, M.D., Instructor in Pediatrics.
Eleonore C. Zaudy, M.D., Instructor in Pediatrics.
Alla G. Zaver, M.B., B.S., Instructor in Pediatrics.
William J. Adelson, M.D., Assistant in Pediatrics.
Donald J. Annino, M.D., Assistant in Pediatrics.
Kelley K. Davis, M.D., Assistant in Pediatrics.
Paul F. Donahue, M.D., Assistant in Pediatrics.
Ralph Earle, Jr., M.D., Assistant in Pediatrics.
George A. Glines, M.D., Assistant in Pediatrics.
Gerald W. Hazard, M.D., Assistant in Pediatrics.
Elvin Kaplan, M.D., Assistant in Pediatrics.
Richard A. Katz, M.D., Assistant in Pediatrics.
Howard S. King, M.D., Assistant in Pediatrics.
Rosemary C. Leake, M.D., Assistant in Pediatrics.
Myron Morris, Ph.D., M.D., Assistant in Pediatrics.

Robert J. Orme, M.D., Assistant in Pediatrics.
Jules Rako, M.D., Assistant in Pediatrics.
George L. Robb, M.D., Assistant in Pediatrics.
John C. Robinson, M.D., Assistant in Pediatrics.
Murray K. Rosenthal, M.D., Assistant in Pediatrics.
Daniel C. Shannon, M.D., Assistant in Pediatrics.
George L. Siegel, M.D., Assistant in Pediatrics.
Leslie Silverstone, M.D., D.P.H., Assistant in Pediatrics.
George Storm, M.D., Assistant in Pediatrics.
John S. Taub, M.D., Assistant in Pediatrics.
Martin K. White, M.D., Assistant in Pediatrics.
Thomas J. Whitfield, M.D., Assistant in Pediatrics.
Alan Ziskind, M.D., Assistant in Pediatrics.
Charles S. August, M.D., Research Fellow in Pediatrics.
Theodore W. AvRuskin, M.D., Research Fellow in Pediatrics (through September 30, 1967).
Christos S. Bartsocas, M.D., Research Fellow in Pediatrics.
Hans H. Bode, M.D., Research Fellow in Pediatrics.
James A. Burdette, M.D., Research Fellow in Pediatrics.
Tai J. Chung, M.D., Research Fellow in Pediatrics.
John P. Cocchiarella, M.D., Research Fellow in Pediatrics.
Joan D. Crain, M.D., Research Fellow in Pediatrics.
Amy Edalji, M.B., B.S., Research Fellow in Pediatrics.
Robert C. Ellison, M.D., Research Fellow in Pediatrics.
David Z. Friedberg, M.D., Research Fellow in Pediatrics.
Enrique M. Galan, M.D., Research Fellow in Pediatrics (through August 31, 1967).
Gary E. Gathman, M.D., Research Fellow in Pediatrics.
Samuel Goldstein, M.D., Research Fellow in Pediatrics.
Martin H. Greenberg, M.D., Research Fellow in Pediatrics.
Eugene J. Guazzo, M.D., Research Fellow in Pediatrics.
Thorlakur S. Halldorsson, M.D., Research Fellow in Pediatrics.
Douglas S. Holsclaw, Jr., M.D., Research Fellow in Pediatrics.
Sunao Honda, M.D., Ph.D., Research Fellow in Pediatrics.
Hymie S. Joffe, M.B., Ch.B., Research Fellow in Pediatrics.
Richard B. Johnston, Jr., M.D., Research Fellow in Pediatrics.

Michael A. Kornfield, M.D., Research Fellow in Pediatrics.
Michael J. Maisels, M.B., Ch.B., Research Fellow in Pediatrics.
Pratibha Malhotra, M.B., B.S., Research Fellow in Pediatrics.
Edward B. Marsh, Jr., M.D., Research Fellow in Pediatrics (from October 1, 1967).
Shuzo Matsumoto, M.D., Research Fellow in Pediatrics (through August 31, 1967).
Leone F. Mattioli, M.D., Research Fellow in Pediatrics.
William C. Mentzer, Jr., M.D., Research Fellow in Pediatrics (from August 1, 1967).
John M. Neff, M.D., Research Fellow in Pediatrics.
Vilma Piedrahita, M.D., Research Fellow in Pediatrics (through August 31, 1967).
Jane Pitt, M.D., Research Fellow in Pediatrics.
Albert C. Price, M.D., Research Fellow in Pediatrics.
Richard P. Propp, M.D., Research Fellow in Pediatrics.
Aileen Redmond, M.B., Ch.B., Research Fellow in Pediatrics.
Robert M. Reece, M.D., Research Fellow in Pediatrics.
Norma J. Restieaux, M.B., Ch.B., Research Fellow in Pediatrics.
Robert G. Rosenberg, M.D., Research Fellow in Pediatrics.
Amnon Rosenthal, M.D., Research Fellow in Pediatrics.
Myron Siner, M.B., Ch.B., Research Fellow in Pediatrics (through August 31, 1967).
Franco P. Stocker, M.D., Research Fellow in Pediatrics.
Yshawant B. Talwalkar, M.B., Ch.B., M.D., Research Fellow in Pediatrics.
James C. Taylor, M.D., Research Fellow in Pediatrics.
James R. Tiernan, M.B., B.S., Research Fellow in Pediatrics (through July 15, 1967).
Michael J. Tyrrell, M.B., B.S., Research Fellow in Pediatrics.
Victor Whitman, M.D., Research Fellow in Pediatrics.
Richard M. Zakheim, M.D., Research Fellow in Pediatrics.
Harold S. Zarkowsky, M.D., Research Fellow in Pediatrics.
David S. Brown, M.D., Teaching Fellow in Pediatrics.
Peter E. Dorsett, M.D., Teaching Fellow in Pediatrics.
Ralph D. Feigin, M.D., Teaching Fellow in Pediatrics.

Michael L. Goldfein, M.D., Teaching Fellow in Pediatrics.
Doris Greenberg, M.D., Teaching Fellow in Pediatrics.
George L. Harkins, M.D., Teaching Fellow in Pediatrics.
Roberto R. Kretschmer, M.D., Teaching Fellow in Pediatrics.
Frederick Mandell, M.D., Teaching Fellow in Pediatrics.
John J. McNamara, M.D., Teaching Fellow in Pediatrics.
Ambadas Pathak, M.B., Ch.B., M.D., Teaching Fellow in Pediatrics.
Lois A. Pounds, M.D., Teaching Fellow in Pediatrics.
Marshall L. Reiner, Jr., M.D., Teaching Fellow in Pediatrics.
Alan A. Rozycki, M.D., Teaching Fellow in Pediatrics.
John W. Scanlon, M.D., Teaching Fellow in Pediatrics.

Affiliated:

Charles F. Barlow, M.D., Bronson Crothers Professor of Neurology and Head of the Department at The Children's Hospital.
Sidney Farber, M.D., Professor of Pathology at The Children's Hospital.
George E. Gardner, M.D., Professor of Psychiatry at The Children's Hospital.
Edward B. D. Neuhauser, M.D., Clinical Professor of Radiology.
William M. Schmidt, M.D., Professor of Maternal and Child Health, S.P.H.
Thomas H. Weller, M.D., Richard Pearson Strong Professor of Tropical Public Health, S.P.H.
Janet W. McArthur, M.D., Associate Clinical Professor of Obstetrics and Gynecology.
Morton N. Swartz, M.D., Associate Professor of Medicine at the Massachusetts General Hospital.
Peter H. Wolff, M.D., Assistant Professor of Psychiatry at The Children's Hospital.
Mary L. L. Scholl, M.D., Clinical Associate in Neurology.
Ezio Merler, Ph.D., Research Associate in Biological Chemistry.
Tully Benaron, M.D., Instructor in Psychiatry.
Dexter M. Bullard, Jr., M.D., Instructor in Psychiatry.

Richard Galdston, M.D., Instructor in Psychiatry.
Richmond Holder, M.D., Instructor in Psychiatry.
John H. Lamont, M.D., Instructor in Psychiatry.

Required Courses

Pediatrics. *Second Year.* — During appropriate sections of the period devoted to correlative teaching in the second semester, pediatric lectures are given on adjustments of respiration, renal regulation, digestion and metabolism, and endocrinology, in early life. Participation by members of the Department of Pediatrics in laboratory and demonstration exercises devoted to these and other body systems further introduces concepts of growth and development into the study of morphology and function in this period.

Pediatrics. *Introduction to the Clinic.* — The student is taught the special aspects of infants and children as patients by those Department members attached to the hospital to which he is assigned for the course in Introduction to the Clinic.

Pediatrics. *Principal Clinical Year.* — Pediatrics is taught intensively to one-eighth of the class at a time for six weeks at either The Children's Hospital Medical Center or the Massachusetts General Hospital. Insofar as possible, students "introduced to the clinic" at one hospital will be assigned for this six weeks of pediatrics to another. By classroom demonstrations and, especially, by working in small supervised sections in the wards and outpatient clinics, students learn by participation the prevention, diagnosis, and treatment of disease in infants and children, and the care of the well child.

SECOND YEAR	HOURS
Clinical lectures. C.H.M.C. Second half year	4
INTRODUCTION TO THE CLINIC	
Clinical Instruction.	
PRINCIPAL CLINICAL YEAR	
Clinical Clerkship. C.H.M.C., M.G.H.	240

Fourth Year Elective Courses *

BLOCK COURSES

501M. General Pediatrics — Wards. Drs. JANEWAY, DIAMOND, and BERENBERG.
502M. General Pediatrics — Ambulatory Services. Dr. CONE.
503M. Pediatric Practice in a Rural Area. Dr. R. BERG.
504M. Family Health Care Program — Short Course. Dr. ALPERT and ASSOCIATES.
505M. Ambulatory Medical Care. Drs. ALPERT and WALKER. Not offered in 1967–68.
506M. Adolescents' Medical Care. Dr. MASLAND and ASSOCIATES.
507M. Cardiology. Dr. NADAS and ASSOCIATES.
508M. Endocrinology and Metabolism. Dr. CRIGLER and ASSOCIATES.
509M. Clinical Genetics. Dr. GERALD and ASSOCIATES.
510M. Hematology. Drs. DIAMOND, NATHAN, and ASSOCIATES.
511M. Neonatal Pediatrics. Dr. C. A. SMITH and ASSOCIATES.
512M. Neoplastic Diseases. Dr. FARBER and ASSOCIATES.
513M. Clinical Nutrition. Dr. SHWACHMAN and ASSOCIATES.
514M. Diseases of Protein Metabolism and Immunologic Responses. Dr. F. S. ROSEN and ASSOCIATES.
515M. Renal Metabolism. Dr. FELLERS and ASSOCIATES.
516M. Rheumatic Fever and Rheumatic Heart Disease. Dr. MASSELL and ASSOCIATES.
517M. Pediatric Neurology. Dr. C. F. BARLOW. (*Same course as Neurology 503M.*)
518M. General Pediatrics. Dr. TALBOT.
519M. Metabolism and Endocrinology. Dr. CRAWFORD.
521M. Ambulatory Pediatrics. Dr. CONNELLY.
522M. Pediatric Neurology. Dr. ADAMS. (*Same course as Neurology 506M.*)
523M. Pediatric Neurology. Dr. ADAMS. (*Same course as Neurology 507M.*)
524M. Pediatric Neurology. Dr. MOSER. (*Same course as Neurology 508M.*)
525M. Pediatric Surgery. Dr. HENDREN. (*Same course as Surgery 513M.*)
526M. Infectious Disease. Dr. L. WEINSTEIN.
527M. Children's Surgery. Dr. GROSS and ASSOCIATES. (*Same course as Surgery 502M.*)
528M. Pediatric Care in a Community Hospital. Dr. PORTER.
529M. Pediatric and Adult Cardiology. Drs. GOLDBLATT and HABER.
530M. Pediatric Infectious Diseases. Drs. S. L. KATZ, C. M. WILFERT, D. H. SMITH, and ASSOCIATES.

LONGITUDINAL COURSES

701. Pediatric Urologic Problems. Dr. PERLMUTTER. (*Same course as Surgery 704.*)

702M. Family Health Care Program. Drs. ALPERT, J. W. BROWN, BULLARD, BUXBAUM, FEINBLOOM, HEAGARTY, ROBBINS, and ASSOCIATES. (*Also listed in Interdepartmental Section.*)

703. Medical Sociology. Dr. KOSA and ASSOCIATES.

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

Department of Pharmacology

Ullrich G. Trendelenburg, M.D., Ph.D., A.M. (hon.), Associate Professor of Pharmacology, and Acting Head of the Department.

John R. Blinks, M.D., Assistant Professor of Pharmacology.

Paul R. Draskoczy, M.D., Assistant Professor of Pharmacology.

Werner E. Flacke, M.D., Assistant Professor of Pharmacology.

Roger T. Kelleher, Ph.D., Assistant Professor of Pharmacology.

Jan Koch-Weser, M.D., Assistant Professor of Pharmacology.

Lincoln T. Potter, M.D., Assistant Professor of Pharmacology (on leave July 1, 1967 through June 30, 1968).

Hugues J. P. Ryser, M.D., Assistant Professor of Pharmacology.

Douglas R. Waud, M.D., D.Phil., Assistant Professor of Pharmacology, and Tutor in Pharmacology.

Norman Weiner, M.D., Assistant Professor of Pharmacology (resigned September 30, 1967).

Brian R. Jewell, Ph.D., Visiting Assistant Professor of Pharmacology.

Martin Lubin, M.D., Ph.D., Visiting Assistant Professor of Pharmacology.

Geoffrey W. G. Sharp, Ph.D., Associate in Pharmacology at the Massachusetts General Hospital.

Richard A. Gillis, Ph.D., Instructor in Pharmacology (resigned September 21, 1967).

Alberto J. Kaumann, M.D., Instructor in Pharmacology.

Camille B. Olson, Ph.D., Instructor in Pharmacology.

Larry D. Byrd, Ph.D., Research Fellow in Pharmacology (from September 1, 1967).

Anne Clark, Ph.D., Research Fellow in Pharmacology.

Nancy J. Engeset (Van der Molen), M.D., Research Fellow in Pharmacology (from November 1, 1967).

Jerome H. Fleisch, Ph.D., Research Fellow in Pharmacology.

Lourdes L. Foo-canto, M.D., Research Fellow in Pharmacology (from September 1, 1967).

Marie-Pierre I. Gabathuler, M.S., Research Fellow in Pharmacology.

M. Jackson Marr, Ph.D., Research Fellow in Pharmacology.

James W. McKearney, Ph.D., Research Fellow in Pharmacology.

Rosalba Pluchino, M.Pharm., Research Fellow in Pharmacology (resigned October 31, 1967).

Salvatore B. Pluchino, M.D., Research Fellow in Pharmacology.

Mirjana Rabadjija, M.D., Research Fellow in Pharmacology (through August 31, 1967).

Hans E. Rugstad, M.D., Research Fellow in Pharmacology (from January 1, 1968).

Menno Van Leeuwen, M.D., Research Fellow in Pharmacology (from October 15, 1967).

Teow Seng Yeoh, M.B., B.S., Research Fellow in Pharmacology (resigned August 21, 1967).

Affiliated:

Peter B. Dews, M.B., Ch.B., Ph.D., A.M., (Hon.), Stanley Cobb Professor of Psychiatry and Psychobiology.

Walter R. Burack, M.D., Clinical Associate in Medicine.

Milton H. Alper, M.D., Assistant Clinical Professor of Anesthesia and Tutor in Medical Sciences.

Antonio V. Lorenzo, Assistant in Pharmacology in the Department of Neurology.

Required Course

Pharmacology A. *Second Year.* — The course in Pharmacology consists of lectures, demonstrations, experimental laboratory exercises and conferences. Concepts of general importance in pharmacology and toxicology are presented and the opportunity is provided for students to become acquainted with important drugs. Emphasis is placed on those actions of pharmacological agents which help in understanding the disordered physiology of disease and which are of importance in the rational treatment of disease. The mode of action of important drugs is discussed. In the laboratory, the student is able to become

acquainted at first hand with some of the experimental facts, obtained from studies on man and animals, which provide the starting points for the analysis of pharmacological effects.

SECOND YEAR HOURS

Lectures. Dr. TRENDELENBURG and ASSOCIATES. One hour, three times a week: Tuesday, Thursday and Saturday mornings, first half year. Members of the staff of the Department of Pharmacology will continue the teaching of Pharmacology in collaboration with other departments in the integrated program of the second half year.

Laboratory work and conferences. Dr. TRENDELENBURG and ASSOCIATES. Tuesday mornings, first half year. Further exercises in Pharmacology will be conducted as part of the integrated program of the second half year. 120

*Fourth Year Elective Courses**

LONGITUDINAL COURSES

701. Selected Topics in Pharmacology. Dr. TRENDELENBURG and ASSOCIATES.
702. Pharmacotherapeutics. Dr. J. KOCH-WESER, ASSOCIATES, and MEMBERS OF THE DEPARTMENT OF MEDICINE. (*Same course as Medicine 716.*)

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

Department of Physiology

David H. Hubel, M.D., A.M. (hon.), George Packer Berry Professor of Physiology, and Head of the Department.

A. Clifford Barger, M.D., Robert Henry Pfeiffer Professor of Physiology.

John R. Pappenheimer, Ph.D., Career Investigator of the American Heart Association, and Visiting Professor of Physiology.

Torsten N. Wiesel, M.D., A.M. (hon.), Professor of Physiology.

*Arthur K. Solomon, Ph.D., D.Phil., Associate Professor of Biophysics.

T. Hastings Wilson, M.D., Ph.D., A.M. (hon.), Associate Professor of Physiology.

Richard D. Berlin, M.D., Assistant Professor of Physiology.

S. Roy Caplan, Ph.D., Assistant Professor of Biophysics.

Peter F. Curran, Ph.D., Assistant Professor of Biophysics (resigned July 31, 1967).

Leon Goldstein, Ph.D., Assistant Professor of Physiology.

H. Maurice Goodman, Ph.D., Assistant Professor of Physiology, and Tutor in Physiology.

Elwood Henneman, M.D., Assistant Professor of Physiology, and Ella Sachs Plotz Fellow in Physiology.

James A. Herd, M.D., Assistant Professor of Physiology.

Donald L. D. Caspar, Ph.D., Lecturer on Biophysics at The Children's Hospital.

Carolyn Cohen, Ph.D., Lecturer on Biophysics at The Children's Hospital.

Vladimir Fencl, M.D., Associate in Physiology (from September 1, 1967).

S. Richard Heisey, S.D., Associate in Physiology (resigned July 31, 1967).

David C. Freeman, S.B., Research Associate in Physiology.

* Appointment under the Committee on Medical Research in Biophysics.

Claude M. GaryBobo, Ph.D., Research Associate in Biophysics.

Dorothea E. W. Hellman, M.D., Research Associate in Physiology (from November 1, 1967).

Eva R. Kashket, Ph.D., Research Associate in Physiology (from September 1, 1967).

William Simon, Ph.D., Research Associate in Physiology.

Janet T. Wiitanen, B.A., Research Associate in Physiology.

Helen F. Cserr, Ph.D., Instructor in Physiology (from September 1, 1967).

James C. Houk, Ph.D., Instructor in Physiology (from September 1, 1967).

Ramadan I. Sha'afi, Ph.D., Instructor in Biophysics.

Barbara G. Wickelgren, Ph.D., Instructor in Physiology.

Herbert Benson, M.D., Research Fellow in Physiology.

James H. Butt, II, M.D., Research Fellow in Physiology (through January 15, 1968).

Nigel W. Daw, Ph.D., Research Fellow in Physiology.

Reinaldo Di Polo, M.D., Research Fellow in Biophysics (from September 15, 1967).

Stephen C. Harrison, Ph.D., Research Fellow in Biophysics (from September 1, 1967).

Ralph H. Janicki, Ph.D., Research Fellow in Physiology (from September 1, 1967).

Yvonne Lange, Ph.D., Research Fellow in Biophysics (from September 1, 1967).

Lorne M. Mendell, Ph.D., Research Fellow in Physiology.

Alan L. Pearlman, M.D., Research Fellow in Physiology.

Frank Rawlins, Lic. in Biol., Research Fellow in Biophysics (from October 1, 1967).

Alberto G. Romualdez, Jr., M.D., Research Fellow in Biophysics.

Franco R. Spinelli, M.D., Research Fellow in Physiology (from November 1, 1967).

Peter Sterling, Ph.D., Research Fellow in Physiology.

Joseph L. Stinson, M.D., Research Fellow in Physiology.

Francisco L. Vieira, M.D., Research Fellow in Biophysics (through March 31, 1968).

Affiliated:

James T. Irving, Ph.D., M.D., Professor of Physiology at the Forsyth Dental Infirmary for Children.

Jean Mayer, Ph.D., D.Sc., Professor of Nutrition, S.P.H.

Miles A. Crenshaw, Ph.D., Instructor in Physiology at the Forsyth Dental Infirmary for Children.

Stephen S. Rothman, D.D.S., Ph.D., Instructor in Physiology in the School of Dental Medicine.

Required Course

Physiology A. *First Year.* — During the first semester, as an introduction to physiology, lectures are designed to acquaint the student with the fundamental aspects of cardiovascular, renal, respiratory, and acid-base physiology, and to consider in detail those portions that are essential to an understanding of the phenomena of health and disease in man. By means of laboratory exercises the student is introduced to the observational methods and techniques available for studying various physiological functions in man. Emphasis is placed upon exercises illustrating in animals the experimental procedures employed for the detailed analysis of function and for the acquisition of a fundamental knowledge of some areas of physiology. Conferences and demonstrations supplement the more formal instruction in these areas, i.e. cardiovascular, renal, respiratory, and acid-base physiology.

During the second semester the lectures and laboratory work in physiology are interwoven with those given by the Departments of Anatomy and Biological Chemistry.

Principles of gastrointestinal physiology and endocrinology are covered. The fate of ingested food stuffs is described including the secretion of enzymes, digestion in the gastrointestinal tract and absorption of these products of digestion. The functions of the liver are considered, with special emphasis on those related to the secretion of bile. The endocrine regulation of metabolism, growth and reproduction is presented, with laboratory work conducted in small groups. These exercises are designed to illustrate special techniques currently employed in endocrine research.

The last period, duration five weeks, is devoted to neurosciences, beginning with consideration of conduction, excitation and inhibition as physico-chemical events at nerve membranes. The motor systems are surveyed in ascending fashion, beginning with muscles and continuing through the spinal cord and brainstem to the cerebral cortex. Sensory systems are considered with special emphasis on vision. Higher level function, such as sleep and consciousness, are discussed in the final week. Neuroanatomy and neurophysiology are considered as a unit and the teaching is done in close collaboration with the departments of Neurobiology and Anatomy.

FIRST YEAR	HOURS
Lectures and laboratory work. Drs. Barger, Berlin, Fencl, Goldstein, Goodman, Henneman, Herd, Hubel, Pappenheimer, Simon, Solomon, Wiesel, and Wilson.	220

*Fourth Year Elective Courses**

BLOCK COURSE

501. Teaching Assistantships in Physiology. Drs. Goldstein, Goodman, and Wilson.

LONGITUDINAL COURSES

702. Electronic Data Processing Techniques in the Field of Physiology. Dr. W. Simon and Associates.
703. Differential Equations of Physiology, Classical and Computer Methods. Dr. W. Simon and Associates.

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

Department of Preventive Medicine

David D. Rutstein, M.D., Ridley Watts Professor of Preventive Medicine, and Head of the Department.

Osler L. Peterson, M.D., Professor of Preventive Medicine.

Theodore Colton, S.D., Assistant Professor of Biostatistics in the Department of Preventive Medicine.

David C. Poskanzer, M.D., Assistant Professor of Preventive Medicine.

Leonard W. Cronkhite, Jr., M.D., Lecturer on Preventive Medicine.

John G. Freymann, M.D., Lecturer on Preventive Medicine.

F. Lloyd Mussells, M.D., C.M., Lecturer on Preventive Medicine (resigned August 31, 1967).

William B. Kannel, M.D., Associate in Preventive Medicine (part time).

Murray Eden, Ph.D., Lecturer on Preventive Medicine.

Leon J. Taubenhaus, M.D., L.H.D. (hon.), Lecturer on Preventive Medicine.

Alexander M. Burgess, Jr., M.D., Research Associate in Preventive Medicine.

William P. Castelli, M.D., Research Associate in Preventive Medicine.

Sonja J. Hemmer, A.M., Research Associate in Preventive Medicine.

Rita J. Nickerson, A.M., Research Associate in Preventive Medicine.

Alfred F. Popoli, S.M., Research Associate in Preventive Medicine.

Andrew C. Twaddle, M.A., Research Associate in Sociology in the Department of Preventive Medicine.

Thomas F. Weiss, Ph.D., Research Associate in Preventive Medicine.

Janet T. Wittes, A.M., Research Associate in Preventive Medicine (resigned September 21, 1967).

Robert C. Buxbaum, M.D., Instructor in Preventive Medicine.
Paul S. Levy, S.D., Instructor in Preventive Medicine.
Roger H. Sweet, M.D., Instructor in Preventive Medicine, and Tutor in Social Medicine.
Philip A. Wolf, M.D., Instructor in Preventive Medicine.

Affiliated:
William G. Cochran, M.A., Professor of Statistics, A.&S.
Robert B. Reed, Ph.D., Professor of Biostatistics, S.P.H.
Jane Worcester, Dr.P.H., Professor of Biostatistics and Epidemiology, S.P.H.
Albert Damon, Ph.D., M.D., Lecturer on Anthropology, Research Associate in Medical Anthropology, Lecturer on Anthropology, S.P.H.
Louis Weinstein, Ph.D., M.D., Lecturer on Infectious Diseases.
Jacob J. Feldman, Associate Professor of Biostatistics, S.P.H.

The preventive aspects of medicine and its various specialties are taught in all departments of the Medical School, and arrangements are made for the integration of such teaching with the more formal teaching in the required course in preventive medicine. An effort is made to stress those aspects of preventive medicine which concern the practicing physician, rather than those which concern the public health officer.

Required Courses

Quantitative Methods in Medicine. *First Year.*—Dr. Colton, Prof. Eden, Dr. Levy, and Associates. Instruction in Quantitative Methods in Medicine is tailored to meet the mathematical and statistical background, and the needs and the career aspirations of the individual student. Three simultaneous courses are given: Introductory Biostatistics, Intermediate Biostatistics, and Introductory Biomathematics. To be eligible for admission to the courses in Intermediate Biostatistics or in Introductory Biomathematics, the student with appropriate statistical and mathematical background must pass a qualifying examination with an honor grade.

Introductory Biostatistics. This course is concerned with the application of statistical reasoning to medicine and to the logical basis

for reaching conclusions from numerical evidence. This course is designed for the future practicing physician as he encounters and interprets laboratory and diagnostic data, and as he critically reads the medical literature.

Intermediate Biostatistics. This intermediate course is concerned with the theory underlying the material presented in the Introductory Course and includes such additional methods as correlation and regression, analysis of variance, non-parametric statistics and sequential analysis. The course is given from the point of view of the medical and biological investigator.

Introductory Biomathematics. This mathematics course is concerned mainly with probability theory and the stochastic processes as they relate to mathematical models in biological and medical research. Admission to this course is limited to those students whose background and competence are adequate to apply mathematics to the medical and biological sciences.

Preventive Medicine. *Principal Clinical Year.* — The course in preventive medicine consists of clinics, lectures, and symposia. Basic material in the disciplines of Epidemiology, Biostatistics, and Biomathematics are presented. Exercises are conducted in the critical reading of medical literature and the evaluation of medical evidence. The preventive aspects of clinical medicine are correlated, with due regard for the rapid changes now going on in medical care, with information in the fields of social medicine, occupational medicine, medical economics, and man-made diseases.

A Health Resources Survey, evaluating community facilities for the total medical care of specified patients, is required of all students.

FIRST YEAR	HOURS
Quantitative Methods in Medicine. — Lectures and laboratory seminar periods. Dr. Colton, Prof. Eden, Dr. Levy, and Associates.	21

SECOND YEAR

Epidemiology of infectious diseases is taught to the second year students in conjunction with the required course in Bacteriology.

PRINCIPAL CLINICAL YEAR	HOURS
Clinics, symposia, and lectures. Drs. Rutstein, Peterson, and Associates, in cooperation with representatives of other departments.	70
Health Resources Survey and individual student conference.	50

*Fourth Year Elective Courses**

BLOCK COURSES

501. Advanced Preventive Medicine — General Survey Course. Dr. Rutstein and Associates.
502. Epidemiology. Drs. Rutstein, Poskanzer, Kannel, Paffenbarger, and Sweet.
503. Advanced Preventive Medicine — Individual Teaching. Dr. Rutstein and Associates.
504M. Neurology and Preventive Medicine. Dr. Poskanzer. (*Same course as Neurology 511M.*)
505. Preventive and Social Medicine in a General Hospital. Drs. Poskanzer, Sweet, and Associates.
506. Chronic Disease Epidemiology. Drs. Rutstein, Kannel, Poskanzer, Castelli, Colton, and Associates.
507. Medical Care Studies. Drs. Peterson, Burgess, and Buxbaum.

LONGITUDINAL COURSES

701. Biostatistics. The Design of Clinical Investigation. Drs. Rutstein and Colton.
702. Biostatistics. Design of Experiments. Professor Cochran. (*Same course as Statistics 140, Faculty of Arts and Sciences.*)
703. Biostatistics. Mathematical Statistics. (*Same course as Statistics 190, Faculty of Arts and Sciences.*)
704. Biostatistics. Introduction to Stochastic Processes. (*Same course as Statistics 171, Faculty of Arts and Sciences.*)
705. Issues in Medical Care. Drs. Peterson, Yerby, and Associates.

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

Department of Psychiatry

Leon Eisenberg, M.D., A.M. (hon.), Professor of Psychiatry, and Head of the Department at the Massachusetts General Hospital.

Jack R. Ewalt, M.D., A.M. (hon.), Bullard Professor of Psychiatry, Head of the Department at the Massachusetts Mental Health Center, and Chairman of the Executive Committee of the Department of Psychiatry.

Gerald Caplan, M.B., Ch.B., M.D., D.P.M., Clinical Professor of Psychiatry.

Peter B. Dews, M.B., Ch.B., Ph.D., A.M. (hon.), Stanley Cobb Professor of Psychiatry and Psychobiology, and Tutor in Psychopharmacology.

George E. Gardner, Ph.D., M.D., Professor of Psychiatry at The Children's Hospital.

Seymour S. Kety, M.D., A.M. (hon.), Professor of Psychiatry at the Massachusetts General Hospital.

John C. Nemiah, M.D., Professor of Psychiatry at the Beth Israel Hospital, and Tutor in Psychiatry.

Elvin V. Semrad, M.D., Clinical Professor of Psychiatry.

Philip Solomon, M.D., Clinical Professor of Psychiatry.

Morris E. Chafetz, M.D., Associate Clinical Professor of Psychiatry.

Frank R. Ervin, M.D., Associate Clinical Professor of Psychiatry.

Henry M. Fox, M.D., Associate Clinical Professor of Psychiatry.

Leston L. Havens, M.D., Associate Clinical Professor of Psychiatry.

Elliot G. Mishler, Ph.D., Associate Clinical Professor of Psychology in the Department of Psychiatry.

William H. Morse, Ph.D., Associate Professor of Psychobiology in the Department of Psychiatry.

Gregory Rochlin, M.D., Associate Clinical Professor of Psychiatry.

Alfred H. Stanton, M.D., A.M. (hon.), Associate Professor of Psychiatry at the McLean Hospital.

Avery D. Weisman, M.D., Associate Clinical Professor of Psyciatry.

Elizabeth R. Zetzel, M.D., Associate Clinical Professor of Psychiatry.

Howard T. Blane, Ph.D., Assistant Clinical Professor of Psychology in the Department of Psychiatry.

Samuel Bojar, M.D., Assistant Clinical Professor of Psychiatry.

C. Keith Conners, Ph.D., Assistant Professor of Psychology in the Department of Psychiatry at the Massachusetts General Hospital (from September 1, 1967).

Harold W. Demone, Jr., Ph.D., Assistant Clinical Professor of Social Welfare in the Department of Psychiatry.

Thomas F. Dwyer, M.D., Assistant Clinical Professor of Psychiatry.

Stanley H. Eldred, M.D., Assistant Professor of Psychiatry at the McLean Hospital.

Daniel H. Funkenstein, M.D., Assistant Professor of Psychiatry.

Sanford R. Gifford, M.D., Assistant Clinical Professor of Psychiatry.

Lester Grinspoon, M.D., Assistant Clinical Professor of Psychiatry.

Henry U. Grunebaum, M.D., Assistant Clinical Professor of Psychiatry.

Howard T. Hermann, M.D., Assistant Professor of Psychiatry at the McLean Hospital.

Louisa P. Howe, Ph.D., Assistant Professor of Sociology in the Department of Psychiatry.

Bellenden R. Hutcheson, M.D., Assistant Clinical Professor of Psychiatry.

Cliffe D. Joel, Ph.D., Assistant Professor of Biological Chemistry in the Department of Psychiatry.

John E. Mack, M.D., Assistant Clinical Professor of Psychiatry.

Edward A. Mason, M.D., Assistant Clinical Professor of Psychiatry.

Benjamin J. Murawski, Ph.D., Assistant Clinical Professor of Psychology in the Department of Psychiatry.

Joseph J. Schildkraut, M.D., Assistant Professor of Psychiatry.

David Shapiro, Ph.D., Assistant Professor of Psychology in the Department of Psychiatry (on leave January 1, 1968 through March 31, 1968).

Peter E. Sifneos, M.D., Assistant Professor of Psychiatry at the Massachusetts General Hospital.

Samuel Silverman, M.D., Assistant Clinical Professor of Psychiatry.

Alan A. Stone, M.D., Assistant Professor of Psychiatry at the McLean Hospital.

George A. Talland, Ph.D., Assistant Professor of Psychology in the Department of Psychiatry.

Peter H. Wolff, M.D., Assistant Professor of Psychiatry at The Children's Hospital.

Norman E. Zinberg, M.D., Assistant Clinical Professor of Psychiatry.

Francis L. A. de Marneffe, M.B., B.S., Lecturer on Psychiatry.

Erik H. Erikson, A.M. (hon.), Lecturer on Psychiatry.

David J. Myerson, M.D., Lecturer on Psychiatry.

Harold S. Albert, M.D., C.M., Clinical Associate in Psychiatry.

Henry G. Altman, M.D., Clinical Associate in Psychiatry.

Martin A. Berezin, M.D., Clinical Associate in Psychiatry.

Dexter M. Bullard, Jr., M.D., Associate in Psychiatry at The Children's Hospital.

Raquel E. Cohen, M.D., Clinical Associate in Psychiatry.

Edward M. Daniels, M.D., Clinical Associate in Psychiatry.

Richard Galdston, M.D., Associate in Psychiatry at The Children's Hospital.

Thomas P. Hackett, M.D., Clinical Associate in Psychiatry.

Lester L. Hasenbush, M.D., Clinical Associate in Psychiatry.

J. Allan Hobson, M.D., Associate in Psychiatry.

Paul M. Howard, M.D., Clinical Associate in Psychiatry.

Irene Jakab, M.D., Ph.D., Associate in Psychiatry at the McLean Hospital.

Ralph J. Kahana, M.D., Clinical Associate in Psychiatry.

Merton J. Kahne, M.D., Clinical Associate in Psychiatry.

Stanley S. Kanter, M.D., Clinical Associate in Psychiatry.

Sidney Levin, M.D., Clinical Associate in Psychiatry.

Richard Longabaugh, Ed.D., Associate in Social Psychology in the Department of Psychiatry at the McLean Hospital.

Alfred O. Ludwig, M.D., Clinical Associate in Psychiatry.

John M. MacKenzie, M.D., Clinical Associate in Psychiatry.

Elizabeth S. Makkay, M.D., Associate in Psychiatry at The Children's Hospital.

Robert H. McCarter, M.D., Clinical Associate in Psychiatry.

Peter J. M. McEwan, Ph.D., Associate in Sociology in the Department of Psychiatry.

Norbett L. Mintz, Ph.D., Associate in Psychology in the Department of Psychiatry at the McLean Hospital.

Arnold H. Modell, M.D., Clinical Associate in Psychiatry.

William F. Murphy, Ph.B., M.D., Clinical Associate in Psychiatry.

Silvio J. Onesti, Jr., M.D., C.M., Clinical Associate in Psychiatry.

Edmund C. Payne, M.D., Clinical Associate in Psychiatry.

Gardner C. Quarton, M.D., Clinical Associate in Psychiatry.

A. Michael Rossi, Ph.D., Associate in Psychology in the Department of Psychiatry.

Herbert C. Schulberg, Ph.D., Associate in Psychology in the Department of Psychiatry.

Richard I. Shader, M.D., Associate in Psychiatry.

Harvey M. Shein, M.D., Associate in Psychiatry at the McLean Hospital.

Laurence D. Trevett, M.D., Clinical Associate in Psychiatry.

Arthur F. Valenstein, M.D., Clinical Associate in Psychiatry.

John Vorenberg, M.D., Clinical Associate in Psychiatry.

Stanley Walzer, M.D., Associate in Psychiatry at The Children's Hospital.

Nancy E. Waxler, Ph.D., Associate in Social Psychology in the Department of Psychiatry.

Justin L. Weiss, Ph.D., Clinical Associate in Psychology in the Department of Psychiatry.

Henry Wermer, M.D., Clinical Associate in Psychiatry.

Donald Wexler, M.D., Clinical Associate in Psychiatry.

Gerald Adler, M.D., Lecturer on Psychiatry.

Gerald A. Berlin, L.L.B., Lecturer on Law in the Department of Psychiatry (from September 1, 1967).

Louis S. Chase, M.D., Lecturer on Psychiatry.

James W. Dykens, M.D., Lecturer on Psychiatry (from November 1, 1967).

Harold Garfinkel, Ph.D., Visiting Lecturer on Sociology in the Department of Psychiatry (from September 1, 1967).

Milton Greenblatt, M.D., Lecturer on Psychiatry.

Kenneth J. Jones, Ed.D., Lecturer on Education in the Department of Psychiatry.

Lewis B. Klebanoff, Ph.D., Lecturer on Psychology in the Department of Psychiatry.

Bernard M. Kramer, Ph.D., Lecturer on Psychology in the Department of Psychiatry (from September 1, 1967).

Cecil Mushatt, M.D., Lecturer on Psychiatry.

Charles A. Pinderhughes, M.D., Lecturer on Psychiatry.

Eveoleen N. Rexford, M.D., Lecturer on Psychiatry.

Joseph C. Rheingold, M.D., Ph.D., Lecturer on Psychiatry.

Leon N. Shapiro, M.D., Lecturer on Psychiatry.

Robert S. Weiss, Ph.D., Lecturer on Sociology in the Department of Psychiatry.

Charles V. Willie, Ph.D., Visiting Lecturer on Sociology in the Department of Psychiatry.

Clint D. Anderson, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

Frank Baker, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

Milton Budoff, Ph.D., Research Associate in Psychology in the Department of Psychiatry (from December 1, 1966).

Rose L. Coser, Ph.D., Research Associate in Sociology in the Department of Psychiatry.

Andrew B. Crider, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

Gerald E. Cubelli, M.S., Research Associate in Psychiatry.

Alberto DiMascio, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

Arthur S. Elstein, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

Charles L. Feldman, Sc.D., Research Associate in Biomathematics in the Department of Psychiatry.

Miriam F. Fiedler, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

Claire G. Fishman, Ph.D., Research Associate in Psychology in the Department of Psychiatry (through August 31, 1967).

Franklin B. Fogelson, Ph.D., Research Associate in Social Welfare in the Department of Psychiatry.

David H. Gallant, M.S., Research Associate in Psychology in the Department of Psychiatry.

Bernard Gray, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

Robert H. Harrison, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

Charles Hersch, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

John B. Hudson, Ph.D., Research Associate in Sociology in the Department of Psychiatry (resigned September 30, 1967).

David J. Ingle, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

Robert L. James, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

Helen J. Kenney, Ed.D., Research Associate in Psychology in the Department of Psychiatry.

Philip E. Kubzansky, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

David N. Lee, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

Frederic M. Levine, Ph.D., Research Associate in Psychology in the Department of Psychiatry (resigned October 16, 1967).

Stephen Lorch, S.B., Research Associate in Biomathematics in the Department of Psychiatry, and Tutor in Computer Technology (resigned August 31, 1967).

Joseph Mayer, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

Murray Melbin, Ph.D., Research Associate in Social Psychology in the Department of Psychiatry.

David P. Michener, M.D., Research Associate in Psychiatry.

Robert C. Misch, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

James J. Muller, M.A., Research Associate in Psychology in the Department of Psychiatry.

Peter E. Nathan, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

Florence S. Nichols, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

Charlotte E. Owens, M.P.H., Research Associate in Community Mental Health in the Department of Psychiatry.

Daniel Pershonok, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

Jerold H. Rekosh, Ph.D., Research Associate in Psychology in the Department of Psychiatry (from September 1, 1967).

Laura H. Salwen, Ph.D., Research Associate in Psychology in the Department of Psychiatry (from August 1, 1967).

Shera Samaraweera, M.B., B.S., Research Associate in Psychiatry (from September 1, 1967).

Alan P. Sheldon, M.B., Ch.B., Research Associate in Psychiatry.

Marvin Snider, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

Irene P. Stiver, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

Nancy C. Waugh, Ph.D., Research Associate in Psychology in the Department of Psychiatry.

Aydin Wysocki, Ph.D., Research Associate in Psychology in the Department of Psychiatry.
Morris H. Adler, M.D., Instructor in Psychiatry.
William S. Appleton, M.D., Instructor in Psychiatry.
Nicholas C. Avery, M.D., Instructor in Psychiatry.
Jane E. Bain, M.B., Ch.B., Instructor in Psychiatry.
Mary D. Bain, M.D., Instructor in Psychiatry.
Tully Benaron, M.D., Instructor in Psychiatry.
Norman R. Bernstein, M.D., Instructor in Psychiatry.
William F. Beuscher, M.D., Instructor in Psychiatry.
William A. Binstock, M.D., Instructor in Psychiatry.
David Blau, M.D., Instructor in Psychiatry.
John R. Blitzer, M.D., Instructor in Psychiatry.
Lenore A. Boling, M.D., Instructor in Psychiatry.
Richard J. Bonier, Ph.D., Instructor in Psychology in the Department of Psychiatry.
Frances J. Bonner, M.D., Instructor in Psychiatry.
Irving D. Bornstein, M.D., Instructor in Psychiatry.
Robert L. Bragg, M.D., Instructor in Psychiatry.
Richard D. Brodie, Ph.D., Instructor in Psychology in the Department of Psychiatry (from September 1, 1967).
Carl N. Brownsberger, M.D., Instructor in Psychiatry.
Benjamin B. Brussel, M.D., Instructor in Psychiatry.
Harvey M. Budner, M.D., Instructor in Psychiatry.
Bernard L. Busfield, Jr., M.D., Instructor in Psychiatry.
Arthur J. Cain, M.D., Instructor in Psychiatry.
Enid F. Caldwell, M.D., Instructor in Psychiatry.
Lloyd M. Caplan, M.D., Instructor in Psychiatry.
William G. Carmichael, M.D., Instructor in Psychiatry.
Franklin Carter, M.D., Instructor in Psychiatry.
Peter T. Choras, M.D., Instructor in Psychiatry (from September 1, 1967).
Jacob Christ, M.D., Instructor in Psychiatry.
John G. Clark, Jr., M.D., Instructor in Psychiatry.
Herbert S. Cline, M.D., Instructor in Psychiatry.
Jay L. Collins, M.D., Instructor in Psychiatry.

John C. Coolidge, M.D., Instructor in Psychiatry.
Richard E. Cutler, M.D., Instructor in Psychiatry.
Chester C. d'Autremont, M.D., Instructor in Psychiatry.
Edwin M. Davidson, M.D., Instructor in Psychiatry.
Gerald E. Davidson, M.D., Instructor in Psychiatry.
Daniel C. Dawes, M.D., Instructor in Psychiatry.
Max Day, M.D., Instructor in Psychiatry.
Paul R. Dinsmore, M.D., Instructor in Psychiatry.
Robert M. Eisendrath, Jr., M.D., Instructor in Psychiatry.
Ralph P. Engle, Jr., M.D., Instructor in Psychiatry.
Henry C. Everett, M.D., Instructor in Psychiatry.
Abraham D. Fineman, M.D., Instructor in Psychiatry.
Thomas Frank, M.D., Instructor in Psychiatry.
Freddy H. Frankel, M.B., Ch.B., Instructor in Psychiatry.
Donald S. Gair, M.D., Instructor in Psychiatry.
Phillip H. Gates, M.D., Instructor in Psychiatry.
George E. Gifford, Jr., M.D., Instructor in Psychiatry.
Benjamin F. Gill, M.D., Instructor in Psychiatry.
Carmen R. Goldings, M.D., Instructor in Psychiatry.
Herbert J. Goldings, M.D., Instructor in Psychiatry.
James A. Haycox, M.D., Instructor in Psychiatry.
Francis C. Hersey, M.D., Instructor in Psychiatry.
Helen M. Herzan, M.D., Instructor in Psychiatry.
Richmond Holder, M.D., Instructor in Psychiatry.
Stephen D. Howard, M.D., Instructor in Psychiatry.
Carlos L. Hudson, M.D., Instructor in Psychiatry.
Phillip L. Isenberg, M.D., Instructor in Psychiatry.
Peter B. Jenney, M.D., Instructor in Psychiatry.
Ernest Kahn, M.D., Instructor in Psychiatry.
Samuel Kaplan, M.D., Instructor in Psychiatry.
Irving Kaufman, M.D., Instructor in Psychiatry.
Melvin M. Kayce, M.D., Instructor in Psychiatry.
Robert L. Kelley, M.D., Instructor in Psychiatry.
Edward J. Khantzian, M.D., Instructor in Psychiatry.
Arthur R. Kravitz, M.D., Instructor in Psychiatry.
Edmund N. Kudarauskas, M.D., Instructor in Psychiatry.

Dubravko M. Kuftinec, M.D., Instructor in Psychiatry.
John H. Lamont, M.D., Instructor in Psychiatry.
George B. Lawson, M.D., Instructor in Psychiatry.
Cavin P. Leeman, M.D., Instructor in Psychiatry.
Don R. Lipsitt, M.D., Instructor in Psychiatry.
Maria Lorenz, M.D., Instructor in Psychiatry.
Dorothy A. MacNaughton, M.B., Ch.B., Instructor in Psychiatry.
John T. Maltsberger, III, M.D., Instructor in Psychiatry.
Walter Mann, Ph.D., M.D., Instructor in Psychiatry.
Samuel S. McClellan, M.D., Instructor in Psychiatry (from September 1, 1967).
Michael T. McGuire, M.D., Instructor in Psychiatry.
William F. McLaughlin, M.D.,C.M., Instructor in Psychiatry.
John F. Merrifield, M.D., Instructor in Psychiatry.
Edward Messner, M.D., Instructor in Psychiatry.
Halim Mitry, M.B., Ch.B., Instructor in Psychiatry.
Kathleen M. Mogul, M.D., Instructor in Psychiatry.
Samuel L. Mogul, M.D., Instructor in Psychiatry.
Thomas A. Morris, Jr., M.D., Instructor in Psychiatry.
Barbara C. G. Mueller, M.D., Instructor in Psychiatry.
Egbert H. Mueller, M.D., Instructor in Psychiatry.
Nancy P. Nichols, M.D., Instructor in Psychiatry.
Malkah T. Notman, M.D., Instructor in Psychiatry.
Harry S. Olin, M.D., Instructor in Psychiatry.
Vernon D. Patch, M.D., Instructor in Psychiatry.
Richard R. Peebles, Ph.D., Instructor in Psychology in the Department of Psychiatry.
Jalna A. Perry, M.D., Instructor in Psychiatry.
Maxwell G. Potter, M.D., Instructor in Psychiatry.
Peter Reich, M.D., Instructor in Psychiatry.
John F. Reichard, M.D., Instructor in Psychiatry.
Robert C. Reid, M.D., Instructor in Psychiatry.
David E. Reiser, M.D., Instructor in Psychiatry.
George W. Rever, M.D., Instructor in Psychiatry.
Michael D. Robbins, M.D., Instructor in Psychiatry.

Phelps M. Robinson, M.D., Instructor in Psychiatry.
Gertrude Rogers-Greenblatt, M.D., Instructor in Psychiatry.
Mathew Ross, M.D., Instructor in Psychiatry.
Donald H. Russell, M.D., Instructor in Psychiatry.
Joseph C. Sabbath, M.D., C.M., Instructor in Psychiatry.
Donald J. Scherl, M.D., Instructor in Psychiatry.
Robert D. Schnitzer, Ph.D., Instructor in Psychology in the Department of Psychiatry.
Lionel A. Schwartz, M.D., Instructor in Psychiatry.
Joae G. Selzer, M.D., Instructor in Psychiatry.
Ralph G. Semon, Ph.D., Instructor in Psychology in the Department of Psychiatry.
Adele Shambaugh, M.D., Instructor in Psychiatry.
Benjamin Shambaugh, M.D., Instructor in Psychiatry.
Julius Silberger, Jr., M.D., Instructor in Psychiatry.
Elinor M. Siner, M.D., Instructor in Psychiatry.
Judith G. Singer, Ph.D., Instructor in Psychology in the Department of Psychiatry.
Richard H. Smith, M.D., Instructor in Psychiatry.
Stewart R. Smith, M.D., Instructor in Psychiatry.
Benson R. Snyder, M.D., Instructor in Psychiatry.
Harold D. Stalvey, M.D., Instructor in Psychiatry.
Malvina Stock, M.D., Instructor in Psychiatry.
William E. Stone, M.D., Instructor in Psychiatry.
John B. Sturrock, M.B., B.S., Instructor in Psychiatry.
Helen H. Tartakoff, M.D., Instructor in Psychiatry.
Irvin Taube, M.D., Instructor in Psychiatry.
Suzanne T. van Amerongen, Ph.D., M.D., Instructor in Psychiatry.
Maurice Vanderpol, M.D., Instructor in Psychiatry.
Mark M. Walter, Jr., M.D., Instructor in Psychiatry.
Stephen L. Washburn, M.D., Instructor in Psychiatry.
Paul L. Watson, M.D., Instructor in Psychiatry.
Jerome L. Weinberger, M.D., Instructor in Psychiatry.
Leonard R. Weiner, M.D., Instructor in Psychiatry.
Lionelle D. Wells, M.D., Instructor in Psychiatry.

Olga S. Wermer, M.D., Instructor in Psychiatry.
Lee H. Willer, M.D., Instructor in Psychiatry.
Harold W. Williams, M.D., Instructor in Psychiatry.
Richard V. Wilson, M.D., Instructor in Psychiatry.
Howard E. Wulsin, M.D., Instructor in Psychiatry.
Edward L. Zarsky, M.D., Instructor in Psychiatry.
Naomi P. Zigmond, Ph.D., Instructor in Psychology in the Department of Psychiatry (from September 1, 1967).
Barbara L. Aeschliman, M.D., Assistant in Psychiatry.
Sanford M. Autor, Ph.D., Assistant in Psychology in the Department of Psychiatry.
Sherry Autor, Ph.D., Assistant in Psychology in the Department of Psychiatry.
Ernest W. Bergel, M.D., Assistant in Psychiatry.
Jane M. Berman, M.D., Assistant in Psychiatry.
Ruth B. Beuscher, M.D., Assistant in Psychiatry.
Carl L. Birk, M.D., Assistant in Psychiatry.
Anna C. Brown, M.D., Assistant in Psychiatry.
Randolph Catlin, M.D., Assistant in Psychiatry.
Mignon C. Chasen, M.D., Assistant in Psychiatry.
George Cloutier, M.D., Assistant in Psychiatry.
Howard A. Corwin, M.D., Assistant in Psychiatry.
William M. Crowell, M.D., Assistant in Psychiatry.
Hadassah S. Daniels, M.D., Assistant in Psychiatry.
Dan A. Ditmore, M.D., Assistant in Psychiatry.
Pattison Esmiol, M.D., Assistant in Psychiatry.
Joel H. Feigon, M.D., Assistant in Psychiatry.
Donald J. Fern, M.D., Assistant in Psychiatry.
Bruce W. Fischberg, M.D., Assistant in Psychiatry.
Alice M. Fleming, M.D., Assistant in Psychiatry.
Leonard J. Friedman, M.D., Assistant in Psychiatry.
Francis P. Gallagher, M.D., Assistant in Psychiatry.
Max Geller, M.D., Assistant in Psychiatry.
Jack Green, M.D.,C.M., Assistant in Psychiatry.
Peter B. Hagopian, M.D., Assistant in Psychiatry.
Wallace F. Haley, Jr., M.D., Assistant in Psychiatry.

Wassfy M. Hanna, M.B., Ch.B., Assistant in Psychiatry.
Michael C. Hughes, M.D., Assistant in Psychiatry.
Pierre Johannet, M.D., Assistant in Psychiatry.
Eda M. Kahana, M.D., Assistant in Psychiatry.
Alvin Kahn, M.D., Assistant in Psychiatry.
Judy L. Kantrowitz, Ph.D., Assistant in Psychology in the Department of Psychiatry.
Nasir A. Khan, M.B., B.S., Assistant in Psychiatry.
George S. Klavens, M.D., Assistant in Psychiatry.
Alfred J. R. Koumans, M.D., Assistant in Psychiatry.
Marvin B. Krims, M.D., Assistant in Psychiatry (resigned August 31, 1967).
Kathryn B. Kris, M.D., Assistant in Psychiatry.
Eliot Landsman, M.D., Assistant in Psychiatry.
Rolf A. Lederer, M.B., Ch.B., Assistant in Psychiatry
Miguel A. Leibovich, M.D., Assistant in Psychiatry.
Herbert O. LeVine, M.D., Assistant in Psychiatry.
John B. Livingstone, M.D., Assistant in Psychiatry.
Dennis J. McCrory, M.D., Assistant in Psychiatry.
Arthur W. McMahon, M.D., Assistant in Psychiatry.
Robert D. Mehlman, M.D., Assistant in Psychiatry.
Martin A. Miller, M.D., Assistant in Psychiatry.
Sophie B. Mintz, Ph.D., Assistant in Psychology in the Department of Psychiatry.
James J. Mullen, M.D., Assistant in Psychiatry.
Henry Musnick, M.D., Assistant in Psychiatry.
Carol C. Nadelson, M.D., Assistant in Psychiatry.
Theodore Nadelson, M.D., Assistant in Psychiatry.
Julian J. Newman, M.D., Assistant in Psychiatry.
Armand M. Nicholi, Jr., M.D., Assistant in Psychiatry.
Donald Ottenstein, M.D., Assistant in Psychiatry.
Anita Paine, M.D., Assistant in Psychiatry.
Alan D. Persky, M.D., Assistant in Psychiatry.
Eugene U. Piazza, M.D., Assistant in Psychiatry.
Alan S. Prager, M.D., Assistant in Psychiatry.
Jack O. Rice, M.D., Assistant in Psychiatry.

Edward J. Rolde, M.D., Assistant in Psychiatry.
Nancy Rollins, M.D., Assistant in Psychiatry.
Eliyahu Rosenheim, Ph.D., Assistant in Psychology in the Department of Psychiatry.
Lawrence C. Salvesen, M.D., Assistant in Psychiatry.
Albert B. Samaraweera, M.B., B.S., Assistant in Psychiatry.
Harriet R. Schlesinger, M.D., Assistant in Psychiatry.
Peter P. Schuntermann, M.D., Assistant in Psychiatry.
Philip W. Shambaugh, M.D., Assistant in Psychiatry.
William Sharpe, Jr., M.D., Assistant in Psychiatry.
Theodore C. Sheftel, M.D., Assistant in Psychiatry.
William R. Shelton, M.D., Assistant in Psychiatry.
Nathan T. Sidley, M.D., Assistant in Psychiatry.
Sumner Stone, M.D., Assistant in Psychiatry.
Larry H. Strasburger, M.D., Assistant in Psychiatry.
Consuelo K. Tagiuri, M.D., Assistant in Psychiatry.
William D. Temby, M.D., Assistant in Psychiatry.
Robert H. Trivus, M.D., Ph.D., Assistant in Psychiatry.
Helen D. Wallach, M.D., Assistant in Psychiatry.
John L. Weil, M.D., Assistant in Psychiatry.
Robert M. Weiner, M.D., Assistant in Psychiatry.
Ruth S. Weiss, M.D., Assistant in Psychiatry.
Frederick E. Whiskin, M.D., Assistant in Psychiatry.
Anna K. Wolff, M.D., Assistant in Psychiatry.
Harold M. Wolman, M.D., Assistant in Psychiatry.
Joan J. Zilbach, M.D., Assistant in Psychiatry.
Michael S. Annunziata, M.D., Research Fellow in Psychiatry.
George Bach-Y-Rita, M.D., Research Fellow in Psychiatry.
Jack H. Backman, M.D., Research Fellow in Psychiatry.
Eric A. Baum, M.D., Research Fellow in Psychiatry.
Sheila R. Bob, A.B., Research Fellow in Psychology in the Department of Psychiatry (through August 31, 1967).
Colin F. Bolton, M.B., Ch.B., Research Fellow in Psychiatry.
Brian B. Bouton, M.D., Research Fellow in Psychiatry.
Leslie Brooks, M.D., Research Fellow in Psychiatry.
Richard D. Budson, M.D., Research Fellow in Psychiatry.

Victor J. Burner, M.D., Research Fellow in Psychiatry (resigned October 15, 1967).
Pablo P. Cabrera, M.D., Research Fellow in Psychiatry.
Corbett Campbell, M.B., Ch.B., Research Fellow in Psychiatry.
Richard M. Chasin, M.D., Research Fellow in Psychiatry.
Donald J. Cohen, M.D., Research Fellow in Psychiatry.
Bertram J. Cohler, Ph.D., Research Fellow in Psychology in the Department of Psychiatry (from September 1, 1967).
Robert A. Cole, M.D., Research Fellow in Psychiatry.
Edward A. Conboy, M.D., Research Fellow in Psychiatry.
William B. Donovan, M.D., Research Fellow in Psychiatry.
Woodrow M. Donovan, M.D., Research Fellow in Psychiatry.
Roderick P. Durkin, Ph.D., Research Fellow in Psychology in the Department of Psychiatry.
Michael H. Ebert, M.D., Research Fellow in Psychiatry.
Amir M. Farhadi, M.D., Research Fellow in Psychiatry.
Stuart H. Fine, M.D., Research Fellow in Psychiatry.
Paul G. Foster, M.D., Research Fellow in Psychiatry.
John L. Frank, M.D., Research Fellow in Psychiatry.
Frank M. Gatti, M.D., Research Fellow in Psychiatry.
Alicia Gavalya, M.D., Research Fellow in Psychiatry.
James S. Harburger, M.D., Research Fellow in Psychiatry.
Eddie H. Harris, M.D., Research Fellow in Psychiatry.
Marjorie J. Hill, Ph.D., Research Fellow in Psychology in the Department of Psychiatry.
Robert P. Hopkins, M.D., Research Fellow in Psychiatry.
Ronald O. Hurston, M.D., Research Fellow in Psychiatry.
David Hutchison, M.D., Research Fellow in Psychiatry.
Yukio Ishizuka, M.D., Research Fellow in Psychiatry.
Richard K. Jennings, M.D., Research Fellow in Psychiatry.
Masaya Jimbo, M.D., Research Fellow in Psychiatry (through July 31, 1967).
Stuart M. Kameny, M.D., Research Fellow in Psychiatry.
James G. Kavanaugh, Jr., M.D., Research Fellow in Psychiatry.
Robert Leff, M.D., Research Fellow in Psychiatry.

Robert Mark Leff, A.M., Research Fellow in Psychology in the Department of Psychiatry (through August 31, 1967).
John R. Lion, M.D., Research Fellow in Psychiatry.
Joseph F. Lipinski, M.D., Research Fellow in Psychiatry.
Lawrence Litman, M.D., Research Fellow in Psychiatry.
John M. Ludden, M.D., Research Fellow in Psychiatry.
Peter C. Ludwig, M.D., Research Fellow in Psychiatry.
John J. MacMahon, M.R.C.S., Research Fellow in Psychiatry.
Peter R. Manes, M.D., Research Fellow in Psychiatry.
Herman L. March, M.D., Research Fellow in Psychiatry.
Robert C. Marvit, M.D., Research Fellow in Psychiatry.
Paul W. McCarthy, M.B., Ch.B., Research Fellow in Psychiatry (from September 1, 1967).
Brenda K. McGowan, Ph.D., Research Fellow in Psychology in the Department of Psychiatry.
Gerald J. McKenna, M.D., Research Fellow in Psychiatry.
Katsumi Meguro, M.D., Research Fellow in Psychiatry (from September 1, 1967).
Rebecca L. Merchant, A.M., Research Fellow in Psychology in the Department of Psychiatry (through August 31, 1967).
Martin Merowitz, M.D., Research Fellow in Psychiatry.
Joel A. Michael, Ph.D., Research Fellow in Psychology in the Department of Psychiatry (resigned August 31, 1967).
John P. Muller, A.M., Research Fellow in Psychology in the Department of Psychiatry.
Amos Nahor, M.D., Research Fellow in Psychiatry.
Stephen C. Padnes, M.D., Research Fellow in Psychiatry.
Karen L. Pajari, M.D., Research Fellow in Psychiatry.
Richard R. Paquette, M.D., Research Fellow in Psychiatry.
P. David Pavy, III, Ph.D., Research Fellow in Anthropology in the Department of Psychiatry.
John K. Pearce, M.D., Research Fellow in Psychiatry.
Joseph G. Perpich, M.D., Research Fellow in Psychiatry.
Frederic J. Phillips, M.D., Research Fellow in Psychiatry.
Elaine L. Pitt, M.D., Research Fellow in Psychiatry (from January 1, 1968).

David L. Raphling, M.D., Research Fellow in Psychiatry.
Anthony E. Raynes, B.S., Research Fellow in Psychiatry.
Quentin R. Regestein, M.D., Research Fellow in Psychiatry.
Peter P. Reilly, M.D., Research Fellow in Psychiatry.
Jose T. Reyes, M.D., Research Fellow in Psychiatry.
Mark W. Rhine, M.D., Research Fellow in Psychiatry.
Dorothy I. Riddle, B.A., Research Fellow in Psychology in the Department of Psychiatry (from September 1, 1967).
Ann S. Roberts, M.A., Research Fellow in Psychology in the Department of Psychiatry (from September 1, 1967).
Henry E. Robinson, M.D., Research Fellow in Psychiatry.
Gerald H. Rothschild, M.A., Research Fellow in Psychology in the Department of Psychiatry (from September 1, 1967).
Christopher V. Rowland, Jr., M.D., Research Fellow in Psychiatry.
Jane A. Russell, M.D., Research Fellow in Psychiatry.
Paul L. Russell, M.D., Research Fellow in Psychiatry.
Ralph S. Ryback, M.D., Research Fellow in Psychiatry.
Richard Sens, M.D., Research Fellow in Psychiatry.
Susan R. Shnidman, Ph.D., Research Fellow in Psychology in the Department of Psychiatry.
Arthur H. Stein, M.D., Research Fellow in Psychiatry.
Robert D. Stolorow, M.A., Research Fellow in Psychology in the Department of Psychiatry.
Lawrence A. Stone, M.D., Research Fellow in Psychiatry.
Philip Sullivan, M.D., Research Fellow in Psychiatry.
Patrick T. Villani, M.A., Research Fellow in Psychology in the Department of Psychiatry.
Howard J. Weisman, M.D., Research Fellow in Psychiatry.
Gladys R. Whipple, M.D., Research Fellow in Psychiatry.
Takashi Yamaguchi, M.D., Research Fellow in Psychiatry (from September 1, 1967).
Paul W. Yost, M.D., Research Fellow in Psychiatry.
Stewart L. Aledort, M.D., Teaching Fellow in Psychiatry.
William Alexander, M.D., Teaching Fellow in Psychiatry.
Jeffry J. Andresen, M.D., Teaching Fellow in Psychiatry.

Irwin Avery, M.D., Teaching Fellow in Psychiatry.
Myron L. Belfer, M.D., Teaching Fellow in Psychiatry.
Stephen B. Bernstein, M.D., Teaching Fellow in Psychiatry.
John E. Biddinger, M.D., Teaching Fellow in Psychiatry.
Daniel Birger, M.D., Teaching Fellow in Psychiatry.
Judith Borit, M.D., Teaching Fellow in Psychiatry.
C. Donald Brown, M.D., Teaching Fellow in Psychiatry.
Paul A. Buttenwieser, M.D., Teaching Fellow in Psychiatry.
Charles W. Casella, M.D., Teaching Fellow in Psychiatry.
Maurice C. Cion, M.D., Teaching Fellow in Psychiatry.
Carlos E. Climent, M.D., Teaching Fellow in Psychiatry.
Nicholas S. Craven, M.D., Teaching Fellow in Psychiatry.
Brian B. Doyle, M.D., C.M., Teaching Fellow in Psychiatry.
Hikmet N. Emmanuel, M.B., Ch.B., Teaching Fellow in Psychiatry.
Joseph L. Finesinger, M.D., Teaching Fellow in Psychiatry.
Irene F. Finstein, M.D., Teaching Fellow in Psychiatry.
David A. Fox, M.D., Teaching Fellow in Psychiatry.
David H. Fram, M.D., Teaching Fellow in Psychiatry.
Cornelia W. Friedman, M.D., Teaching Fellow in Psychiatry.
Christopher C. Gates, M.D., Teaching Fellow in Psychiatry.
William B. Gault, M.D., Teaching Fellow in Psychiatry.
Gary S. Gelber, M.D., Teaching Fellow in Psychiatry.
Abraham Genack, M.D., Teaching Fellow in Psychiatry.
Elliot S. Gershon, M.D., Teaching Fellow in Psychiatry.
William H. Giddy, M.D., Teaching Fellow in Psychiatry.
James F. Gilligan, M.D., Teaching Fellow in Psychiatry.
Ricardo A. Giron, M.D., Teaching Fellow in Psychiatry.
Sheldon Golub, M.D., Teaching Fellow in Psychiatry.
David D. Griffith, M.D., Teaching Fellow in Psychiatry.
Bennett S. Gurian, M.D., Teaching Fellow in Psychiatry.
Jonathan A. Guttmacher, M.D., Teaching Fellow in Psychiatry.
George E. Hamilton, M.D., Teaching Fellow in Psychiatry.
Ned R. Harley, M.D., Teaching Fellow in Psychiatry.
Lawrence M. Hartmann, M.D., Teaching Fellow in Psychiatry.

Stuart T. Hauser, M.D., Teaching Fellow in Psychiatry.
David W. Havens, M.D., Teaching Fellow in Psychiatry.
Robert B. Hepps, M.D., Teaching Fellow in Psychiatry.
Joseph H. Herzberg, M.D., Teaching Fellow in Psychiatry.
Jing Hsu, M.D., Teaching Fellow in Psychiatry.
Judith N. Huizenga, M.D., Teaching Fellow in Psychiatry.
Ligaya M. Ilagan, M.D., Teaching Fellow in Psychiatry.
Leonard S. Jacobs, M.D., Teaching Fellow in Psychiatry.
Steven L. Jaffe, M.D., Teaching Fellow in Psychiatry.
Margaret A. Jolly, M.D., Teaching Fellow in Psychiatry.
Martin J. Kelly, Jr., M.D., Teaching Fellow in Psychiatry.
Robert F. Kenerson, M.D., Teaching Fellow in Psychiatry.
Romulo A. Lander, M.D., Teaching Fellow in Psychiatry.
Louis D. Levi, M.D., Teaching Fellow in Psychiatry.
Vicki M. Levi, M.D., Teaching Fellow in Psychiatry.
Matthew E. Levine, M.D., Teaching Fellow in Psychiatry.
Hester T. Lewis, M.D., Teaching Fellow in Psychiatry (from September 1, 1967).
Robert P. Liberman, M.D., Teaching Fellow in Psychiatry.
Jerome J. Liss, M.D., Teaching Fellow in Psychiatry.
Hugh J. Lurie, M.D., Teaching Fellow in Psychiatry (from September 1, 1967).
Harvey E. Mazer, M.D., Teaching Fellow in Psychiatry.
Robert W. McCarley, M.D., Teaching Fellow in Psychiatry.
Nancy J. McDonnell, M.D., Teaching Fellow in Psychiatry (through October 18, 1967).
Paul E. McLean, M.D., Teaching Fellow in Psychiatry.
William J. Moran, M.D., Teaching Fellow in Psychiatry.
Michael D. Murphy, M.B., Ch.B., Teaching Fellow in Psychiatry.
Jeremy P. Nahum, M.D., Teaching Fellow in Psychiatry.
Michael H. Nelson, L.R.C.P., Teaching Fellow in Psychiatry.
Scott H. Nelson, M.D., Teaching Fellow in Psychiatry.
William J. Nemon, M.D., Teaching Fellow in Psychiatry.
Brenda B. O'Donnell, M.B., Ch.B., Teaching Fellow in Psychiatry.

Robert D. Patterson, M.D., Teaching Fellow in Psychiatry.
Michael S. Perlman, M.D., Teaching Fellow in Psychiatry.
Jay M. Pomerantz, M.D., Teaching Fellow in Psychiatry.
Alan E. Rainess, M.D., Teaching Fellow in Psychiatry.
Susan M. Rako, M.D., Teaching Fellow in Psychiatry.
Kent Ravenscroft, Jr., M.D., Teaching Fellow in Psychiatry.
Arthur E. Reider, M.D., Teaching Fellow in Psychiatry.
Ira Reiskin, M.D., Teaching Fellow in Psychiatry (from September 1, 1967).
James S. Robison, M.D., Teaching Fellow in Psychiatry (from September 1, 1967).
Ethan S. Rofman, M.D., Teaching Fellow in Psychiatry.
Sheldon Roth, M.D., Teaching Fellow in Psychiatry.
James E. Sabin, M.D., Teaching Fellow in Psychiatry.
Jerome I. Sashin, M.D., Teaching Fellow in Psychiatry.
David E. Scharff, M.D., Teaching Fellow in Psychiatry.
Bernardo S. Scheimberg, M.D., Teaching Fellow in Psychiatry.
Paul Schneller, M.D., Teaching Fellow in Psychiatry.
Henry E. Schniewind, M.D., Teaching Fellow in Psychiatry.
John W. Schott, M.D., Teaching Fellow in Psychiatry.
Robert W. Shapiro, M.D., Teaching Fellow in Psychiatry.
Robert H. Sharpley, M.D., Teaching Fellow in Psychiatry.
Daniel Shaw, M.D., Teaching Fellow in Psychiatry.
Franklin S. Simon, M.D., Teaching Fellow in Psychiatry.
Michael A. Sperber, M.D., Teaching Fellow in Psychiatry.
Melvin J. Stern, M.D., Teaching Fellow in Psychiatry.
Robert Stern, Ph.D., Teaching Fellow in Psychiatry.
Mark L. Stiglitz, M.D., Teaching Fellow in Psychiatry.
William D. Strathmann, M.D., Teaching Fellow in Psychiatry.
Juliana O. Sustento, M.D., Teaching Fellow in Psychiatry.
Ludwig S. Szymanski, M.D., Teaching Fellow in Psychiatry.
Eng S. Tan, M.B., B.S., Teaching Fellow in Psychiatry.
Paul Torop, M.D., Teaching Fellow in Psychiatry.
Wen-Shing Tseng, B.M., Teaching Fellow in Psychiatry.
Jerry Wacks, M.D., Teaching Fellow in Psychiatry.
Michael S. Weiner, M.D., Teaching Fellow in Psychiatry.

Robert Weinstock, M.D., Teaching Fellow in Psychiatry.
Howard A. Wishnie, M.D., Teaching Fellow in Psychiatry.
David J. Wood, M.D., Teaching Fellow in Psychiatry.
Martin Yellen, M.D., Teaching Fellow in Psychiatry.
Bernard S. Yudowitz, M.D., Teaching Fellow in Psychiatry.

Required Courses

Psychiatry. *First Year.* — Normal Growth and Development. The course will focus on the biological roots of behavior with particular attention to the phenomena of emotion and learning. Consideration of the progressive adaptation of the organism in interaction with the environment leads to an introduction to human personality development. This theme is developed further in the second year. The clinics will present patients exemplifying topic areas from the lecture series.

Psychiatry. *Second Year.* — The second year consists of nineteen lectures in abnormal growth and development to develop further concepts of psychological functioning. Emphasis shifts to the nature and genesis of abnormal psychological mechanisms manifested in symptoms and behavioral disturbances. Nine additional hours are given to introduce methods of history taking and examination of patients designed to understand more fully socio-emotional factors in illness. The course is designed to serve as a preparation for the Introduction to the Clinic and the Principal Clinical Year.

Psychiatry. *Introduction to the Clinic.* — Psychiatric interviewing and case-taking are taught on the wards of the Beth Israel Hospital, Boston City Hospital, Massachusetts General Hospital, and Peter Bent Brigham Hospital by their psychiatric staffs. Lecture-demonstrations supplement this preparation for the subsequent clerkship.

Psychiatry. *Principal Clinical Year.* — Each student serves as a clinical clerk for three weeks at the Massachusetts Mental Health Center, the Massachusetts General Hospital, or the McLean Hospital in conjunction with the Beth Israel Hospital. Work is with inpatients and outpatients, under supervision, and includes both short term and longer term contacts. The psychiatric problems of children and adolescents are discussed with staff members of the M.M.H.C., M.G.H., B.I.H., or C.H.M.C. During the medical, surgical, and

pediatric clerkships at the B.I.H., B.C.H., M.G.H., P.B.B.H., and C.H.M.C., additional patients are studied under supervision one period each week. Emphasis is on the psychiatric problems of medical practice.

FIRST YEAR — HOURS

PSYCHIATRY. Lectures and clinics. Drs. EISENBERG, GARDNER, KETY, and ASSOCIATES. 12

SECOND YEAR

PSYCHIATRY. Lectures and section teaching. Dr. NEMIAH coordinator for course in Abnormal Growth and Development. In 19
addition to nineteen lectures, each student attends three three-hour exercises as part of the course in physical diagnosis. 9

INTRODUCTION TO THE CLINIC

PSYCHIATRY. Psychiatry services in the B.I.H., B.C.H., M.G.H., and P.B.B.H. Number of hours varies.

PRINCIPAL CLINICAL YEAR

PSYCHIATRY. Clinical Clerkship. Drs. EWALT, EISENBERG, HAVENS, NEMIAH, STANTON, GARDNER, FOX, P. SOLOMON, and ASSOCIATES at the M.M.H.C., M.G.H., B.I.H., McL.H., C.H.M.C., P.B.B.H., B.C.H. In addition to the psychiatric clerkship students spend one period each week on psychiatric problems during clerkships in medicine, surgery, and pediatrics. 120

*Fourth Year Elective Courses**

BLOCK COURSES

501M. Adult Psychiatry. Dr. VORENBERG and ASSOCIATES.
502M. Child Psychiatry. Dr. ONESTI and ASSOCIATES.
503M. Medical Psychotherapy. Dr. ALTMAN and ASSOCIATES.
505M. Adult Psychiatry. Dr. P. SOLOMON and ASSOCIATES.
506M. Psychiatric Emergencies. Dr. P. SOLOMON and ASSOCIATES.
507M. Psychiatric Problems in Alcoholism. Dr. P. SOLOMON and ASSOCIATES.
508M. Consultation Psychiatry. Dr. P. SOLOMON and ASSOCIATES.

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

509M. Child Psychiatry. Dr. G. E. Gardner and Associates.
510M. Child Psychiatry in Pediatric Practice. Dr. G. E. Gardner and Associates.
511M. Field Placements in Community Psychiatry. Dr. Grunebaum and Associates.
512M. General Hospital Inpatient and Outpatient Psychiatry. Dr. Sifneos.
514M. Child Psychiatry. Dr. Lamont.
517M. Community Mental Health Program. Dr. Bragg.
518M. Adult Psychiatry. Drs. Nemiah, Sifneos, Weisman, and Chafetz.
522M. Adult Psychiatry. Dr. Havens and Associates.
523M. Child Psychiatry. Dr. Rochlin and Associates.
524M. Clinical Psychiatry. Drs. Stanton, Howard, Levin, Wermer, A. A. Stone, deMarneffe, Christ, Mueller, Washburn, and Associates.
525M. Clinical Psychiatry. Drs. Stanton, Howard, Levin, Wermer, A. A. Stone, deMarneffe, Christ, Mueller, Washburn, and Associates.
526M. Acute Service and Alcohol Clinic. Dr. Chafetz.
527M. Inpatient Child Psychiatry. Dr. G. E. Gardner and Associates.

LONGITUDINAL COURSES

701. Use of Psychological Tests in General Hospital Practice. Dr. Misch and Associates.
707. Group Dynamics. Dr. Christ and Associates.
708. Individual Psychotherapy. Dr. Vanderpol and Associates.
709. General Psychopathology. Dr A. A. Stone and Associates.
710M. Applied Geriatric Psychiatry. Dr. Berezin and Associates.
711. Behavioral Science Research. Dr. Talland and Associates.
712. Short-Term Outpatient Psychotherapy. Dr. Sifneos.
713M. Community Mental Health Pre-school Check-up Program. Dr. Misch.
714. Techniques of Preventive Intervention. Dr. Herzan.
715. Dynamics of Group Processes in Medical Practice. Dr. Semrad and Associates.
716M. Basic Principles of Psychotherapy. Dr. Semrad.
717. Problems of Psychiatry. Dr. Havens.
718. Basic Concepts of Dynamic Psychiatry. Dr. E. R. Zetzel.
721. Research in Psychophysiology. Drs. Shapiro, Crider, and Mr. Tursky.
722M. Outpatient Therapy. Drs. Stanton, Christ, A. A. Stone, Vanderpol, and Associates.
723. Practice of Medical Psychology. Dr. Lipsitt and Associates.
724. Psycho-Social Development — Adolescence through Aging. Dr. Zinberg and Associates.
725. Medicine in Society. Dr. Zinberg.
726. Incurable and Dying Patients — Emotional Issues for Patient and Doctor. Dr. Payne and Associates.
727. Consultative and Psychotherapeutic Approaches in Child Psychiatry. Dr. T. Frank and Associates.
728. Introduction to Community Psychiatry. Dr. Grunebaum and Associates.

PSYCHIATRY

730. Outpatient Clinical Clerkship. Drs. Christ, Shein, Mueller, and Associates.
731. Clinical Clerkship. Hospital Treatment and the Major Psychiatric Disorders. Drs. Stanton, P. M. Robinson, H. W. Williams, Jr., and Associates.
732. Formalization of Psychiatric Theory: Exploration of Formal Symbolic Schemata for Use in Study of Clinical and Experimental Psychological Phenomena. Dr. Hermann.
733. Child Psychiatry. Dr. Onesti and Associates.
734. Drug Abuse and Control. Drs. B. Jackson and Zinberg.

Department of Radiology

Herbert L. Abrams, M.D., A.M. (hon.), Philip H. Cook Professor of Radiology, and Head of the Department.

Henry I. Kohn, Ph.D., M.D., Alvan T. and Viola D. Fuller-American Cancer Society Professor of Radiology.

Edward B. D. Neuhauser, M.D., Clinical Professor of Radiology.

Laurence L. Robbins, M.D., Clinical Professor of Radiology.

Samuel Hellman, M.D., Associate Professor of Radiology at the Conjoint Therapy Center (from January 1, 1968).

Florencio A. Hipona, M.D., Associate Clinical Professor of Radiology.

Milford D. Schulz, M.D., Associate Clinical Professor of Radiology.

Morris Simon, M.B., Ch.B., Associate Clinical Professor of Radiology.

Edward W. Webster, Ph.D., Associate Clinical Professor of Radiological Physics in the Department of Radiology.

Martin H. Wittenborg, M.D., Associate Clinical Professor of Radiology (on leave July 1, 1967 through June 30, 1968).

Jack R. Dreyfuss, M.D., Assistant Clinical Professor of Radiology.

Eric N. C. Milne, M.B., Ch.B., Assistant Professor of Radiology (from August 1, 1967).

Majic S. Potsaid, M.D., Assistant Clinical Professor of Radiology.

Stanley M. Wyman, M.D., Assistant Clinical Professor of Radiology.

Lloyd E. Hawes, M.D., Lecturer on Radiology, and Honorary Curator of the Historical Collection in Radiology in the Francis A. Countway Library of Medicine.

John E. Gary, M.D., Clinical Associate in Radiology.

George B. C. Harris, M.D., Clinical Associate in Radiology.

Francis A. Herzan, M.D., Clinical Associate in Radiology.

Martin B. Levene, M.D., Clinical Associate in Radiology.

Ann M. Lewicki, M.D., Associate in Radiology (from October 1, 1967).
Joseph H. Marks, M.D., Clinical Associate in Radiology.
Paul F. J. New, M.B., B.S., Clinical Associate in Radiology.
Keith R. Rabinov, M.D., Clinical Associate in Radiology.
Melvin Tefft, M.D., Clinical Associate in Radiology.
Chiu-Chen Wang, M.D., Clinical Associate in Radiology.
Alfred L. Weber, M.D., Clinical Associate in Radiology.
Harris Jackson, D.M.R., Lecturer on Radiology (from January 1, 1968).
Jerome H. Shapiro, M.D., Lecturer on Radiology.
Lucy F. Squire, M.D., Lecturer on Radiology.
Douglass F. Adams, M.D., Instructor in Radiology.
Richard I. Basch, M.D., Instructor in Radiology.
Boris P. Bushueff, M.D., Instructor in Radiology.
Robert E. Dinsmore, M.D., Instructor in Radiology.
Sidney A. Elk, M.B., Ch.B., Instructor in Radiology (from August 1, 1967).
Nathan T. Griscom, M.D., Instructor in Radiology.
Douglas H. Howry, M.D., Instructor in Radiology.
Murray L. Janower, M.D., Instructor in Radiology.
Naphtali Joffe, M.B., Ch.B., Instructor in Radiology.
Mirle A. Kellett, M.D., Instructor in Radiology.
Alexander S. Macmillan, Jr., M.D., Instructor in Radiology.
James M. McNeill, M.D., Instructor in Radiology.
Kiyokazu J. Momose, M.D., C.M., Instructor in Radiology.
Robert A. Nebesar, M.D., Instructor in Radiology.
Henry P. Pendergrass, M.D., Instructor in Radiology.
Lawrence Perchik, M.D., Instructor in Radiology (from September 1, 1967).
James J. Pollard, M.D., Instructor in Radiology.
Norman L. Sadowsky, M.D., Instructor in Radiology.
Stefan C. Schatzki, M.D., Instructor in Radiology.
John L. Sosman, M.D., Instructor in Radiology.
Jorgen Stovring, M.D., Instructor in Radiology.
Frederick S. Tomchik, M.D., Instructor in Radiology.

Erich Voegeli, M.D., Instructor in Radiology (from February 1, 1968).
Wladimir Zezulin, M.D., Instructor in Radiology.
Harry Bailey, M.B., Ch.B., Assistant in Radiology.
Melvin E. Clouse, M.D., Assistant in Radiology.
Donald J. Fleischli, M.D., Assistant in Radiology.
Julian I. Gilliam, M.D., Assistant in Radiology.
Derek J. Goodman, M.B., B.S., Assistant in Radiology.
Herbert F. Gramm, M.D., Assistant in Radiology.
Patrick J. Haran, M.B., Ch.B., Assistant in Radiology.
Daniel Kaplan, M.D., Assistant in Radiology.
Adolfo Maldonado, M.D., Assistant in Radiology.
Donald A. Meier, M.D., Assistant in Radiology.
Ronald J. Messer, M.D., Assistant in Radiology.
Earl D. Nordberg, M.D., Assistant in Radiology.
Richard G. O'Brien, M.D., Assistant in Radiology.
John F. O'Connor, M.D., Assistant in Radiology.
Richard C. Pfister, M.D., Assistant in Radiology.
Basil Rosenberg, M.B., Ch.B., Assistant in Radiology (from September 1, 1967).
Hubert S. Sear, M.D., Assistant in Radiology.
Thomas E. Shea, M.D., Assistant in Radiology.
John A. Twaddle, M.D., Assistant in Radiology.
Roland G. Ware, M.D., Assistant in Radiology (resigned December 9, 1967).
Robert H. Wilkinson, M.D., Assistant in Radiology.
George F. Zinninger, M.D., Assistant in Radiology.
Kyoichi Hiramatsu, M.D., Research Fellow in Radiology (from September 1, 1967).
William J. H. Caldicott, M.B., B.S., Teaching Fellow in Radiology.
Joseph T. Ferrucci, M.D., Teaching Fellow in Radiology.
John B. Festenstein, M.B., Ch.B., Teaching Fellow in Radiology (from January 1, 1968).
Herbert L. Manevich, M.D., Teaching Fellow in Radiology (from January 1, 1968).

Maurice S. F. McLachlan, M.B., Ch.B., Teaching Fellow in Radiology (from November 1, 1967).

Danielle M. Raymond-Tremblay, M.D., Teaching Fellow in Radiology.

B. Simon Slasky, M.B., Ch.B., Teaching Fellow in Radiology (through December 31, 1967).

Roy D. Strand, M.D., Teaching Fellow in Radiology.

Dale E. Wenlund, M.D., Teaching Fellow in Radiology (died August 6, 1967).

Required Courses

Radiology. *First Year.*—Radiological instruction during the first year comprises a series of presentations during the course in Anatomy, designed to introduce and apply the X-ray method as a means of studying gross internal anatomy in health and disease. The practical application of these methods is extended in the Saturday clinics.

Radiology. *Second Year.*—During the second semester of the second year, small group exercises and demonstrations are conducted in conjunction with the program of correlative teaching, with emphasis on the systematic approach to X-ray interpretation and the correlation of abnormal findings with gross pathology and pathophysiology.

Radiology. *Introduction to the Clinic* and *Principal Clinical Year.*—Instruction is offered at the teaching hospitals through a series of lectures, clinics, and seminars.

Fourth Year Elective Courses *

BLOCK COURSES

501M. General Radiology. Dr. M. Simon and Associates.
502M. General Radiology. Dr. M. Simon and Associates.
503M. General Pediatric Roentgen Diagnosis. Dr. Neuhauser and Associates.
504M. Pediatric Radiotherapy. Dr. Tefft.
505M. General Radiology. Dr. L. L. Robbins and Associates.
506M. Radiation Therapy. Dr. Schulz and Associates.

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

507M. General Radiology with Emphasis on Diagnostic Radiology. Dr. R. Schatzki and Associates.
508M. Clinical Diagnosis, Clinical Radiotherapy, and Nuclear Medicine. Dr. Abrams and Associates.
509M. Clinical Diagnosis. Dr. Abrams and Associates.
510M. Clinical Radiotherapy, including Tutorial Instruction in Radiobiology. Drs. Abrams, Adelstein, and Associates.
511M. Nuclear Medicine. Dr. Abrams and Associates.
512M. General Radiology. Dr. Bushueff and Associates.
513M. Radiology. Drs. Shapiro, Hipona, and Associates.

LONGITUDINAL COURSES

701. Radiobiology. Drs. Kohn and Adelstein.
702. Diagnostic Roentgenology. Dr. L. L. Robbins.
703. Neuroradiology. Dr. Hipona and Associates.

Department of Surgery

William V. McDermott, Jr., M.D., Professor of Surgery, and Head of the Department at the Boston City Hospital.

Francis D. Moore, M.D., S.D. (hon.), Moseley Professor of Surgery, and Head of the Department at the Peter Bent Brigham Hospital.

Paul S. Russell, M.D., A.M. (hon.), John Homans Professor of Surgery, Head of the Department at the Massachusetts General Hospital, and Secretary to the Departments of Surgery.

William Silen, M.D., A.M. (hon.), Professor of Surgery at the Beth Israel Hospital, and Head of the Department at the Beth Israel Hospital.

W. Gerald Austen, M.D., Professor of Surgery.

Marshall K. Bartlett, M.D., Clinical Professor of Surgery.

Henry K. Beecher, M.D., M.D. (hon.), Henry Isaiah Dorr Professor of Research and Teaching in Anaesthetics and Anaesthesia.

George H. A. Clowes, Jr., M.D., Clinical Professor of Surgery.

Oliver Cope, M.D., Dr. (hon.), Professor of Surgery.

M. Judah Folkman, M.D., Professor of Surgery at The Children's Hospital.

Robert E. Gross, M.D., D.Sc. (hon.), M.D. (hon.), William E. Ladd Professor of Child Surgery.

Dwight E. Harken, M.D., D.Sc. (hon.), Clinical Professor of Surgery.

J. Hartwell Harrison, M.D., A.M. (hon.), Elliott Carr Cutler Professor of Surgery.

Wyland F. Leadbetter, M.D., Clinical Professor of Surgery.

Donald D. Matson, M.D., Clinical Professor of Surgery.

Thomas B. Quigley, M.D., Clinical Professor of Surgery.

William H. Sweet, M.D., D.Sc., Professor of Surgery at the Massachusetts General Hospital.

Leroy D. Vandam, M.D., A.M. (hon.), Professor of Anaesthesia at the Peter Bent Brigham Hospital.

Carl W. Walter, M.D., Clinical Professor of Surgery.

Richard Warren, M.D., Clinical Professor of Surgery.

Claude E. Welch, M.D., Clinical Professor of Surgery.

J. Englebert Dunphy, M.D., Visiting Professor of Surgery (from October 1, 1967 through October 31, 1967).

Ben Eiseman, M.D., Visiting Professor of Surgery (from October 16, 1967 through October 23, 1967).

Thomas W. Botsford, M.D., Associate Clinical Professor of Surgery.

Chilton Crane, M.D., Associate Clinical Professor of Surgery.

Howard A. Frank, M.D., Associate Clinical Professor of Surgery, and Tutor in Surgery.

Edward Hamlin, Jr., M.D., Associate Clinical Professor of Surgery.

John Hedley-Whyte, M.B., Ch.B., A.M. (hon.), Associate Professor of Anaesthesia at the Beth Israel Hospital.

Joseph E. Murray, M.D., Sc.D. (hon.), Associate Clinical Professor of Surgery.

George L. Nardi, M.D., Associate Clinical Professor of Surgery.

Melvin P. Osborne, M.D., Associate Clinical Professor of Surgery.

J. Gordon Scannell, M.D., Associate Clinical Professor of Surgery.

Robert M. Smith, M.D., Associate Clinical Professor of Anaesthesia.

Milton H. Alper, M.D., Assistant Clinical Professor of Anaesthesia, and Tutor in Medical Science.

H. Thomas Ballantine, Jr., M.D., Assistant Clinical Professor of Surgery.

Henrik H. Bendixen, M.D., Assistant Clinical Professor of Anaesthesia.

William F. Bernhard, M.D., Assistant Clinical Professor of Surgery.

John R. Brooks, M.D., Assistant Clinical Professor of Surgery.

John F. Burke, M.D., Assistant Clinical Professor of Surgery.

Robert M. Filler, M.D., Assistant Clinical Professor of Surgery, and Acting Head of the Department at The Children's Hospital.

Edward D. Frank, M.D., Assistant Clinical Professor of Surgery, and Tutor in Medical Science.

Hermes C. Grillo, M.D., Assistant Clinical Professor of Surgery.

Sylvester B. Kelley, M.D., Assistant Clinical Professor of Surgery.

Walter S. Kerr, Jr., M.D., Assistant Clinical Professor of Surgery.

Myron B. Laver, M.D., Assistant Clinical Professor of Anaesthesia.

Luther A. Longino, M.D., Assistant Clinical Professor of Surgery (resigned December 31, 1967).

Donald W. MacCollum, M.D., Assistant Clinical Professor of Surgery.

Vernon H. Mark, M.D., Assistant Clinical Professor of Surgery.

Anthony P. Monaco, M.D., Assistant Professor of Surgery, and Tutor in Medical Science.

W. Bradford Patterson, M.D., Assistant Clinical Professor of Surgery.

John V. Pikula, M.D., Assistant Clinical Professor of Surgery.

Henning Pontoppidan, M.D., Assistant Clinical Professor of Anaesthesia.

John W. Raker, M.D., Assistant Clinical Professor of Surgery.

Alexander M. Rutenburg, M.D., Assistant Clinical Professor of Surgery, and Tutor in Medical Science.

Edwin W. Salzman, M.D., Assistant Professor of Surgery.

Robert S. Shaw, M.D., Assistant Clinical Professor of Surgery.

Gene M. Smith, Ph.D., Assistant Professor of Psychology in Anaesthesia at the Massachusetts General Hospital.

George W. B. Starkey, M.D., Assistant Clinical Professor of Surgery.

Herbert S. Talbot, M.D., Assistant Clinical Professor of Surgery.

Donald P. Todd, M.D., Assistant Clinical Professor of Anaesthesia.

H. Brownell Wheeler, M.D., Assistant Clinical Professor of Surgery.

Richard E. Wilson, M.D., Assistant Professor of Surgery, and Tutor in Medical Science.

Henry J. Winn, Ph.D., Assistant Professor of Bacteriology and Immunology in the Department of Surgery at the Massachusetts General Hospital.

Nicholas T. Zervas, M.D., Assistant Professor of Surgery at the Beth Israel Hospital (from December 1, 1967).

John Garcia, Ph.D., Lecturer on Psychology in the Department of Surgery.

John G. Adams, Jr., M.D., Clinical Associate in Anaesthesia.

Thomas P. Ashford, M.D., Associate in Surgery at the Beth Israel Hospital.

Benjamin A. Barnes, M.D., Clinical Associate in Surgery.

Ernest M. Barsamian, M.D., Clinical Associate in Surgery.

Henry Brown, M.D., Clinical Associate in Surgery.

Bradford Cannon, M.D., Clinical Associate in Surgery.

Nathan P. Couch, M.D., Clinical Associate in Surgery.

Dean Crocker, M.D., Clinical Associate in Anaesthesia.

Stanley Deutsch, Ph.D., M.D., Associate in Anaethesia.

Gordon A. Donaldson, M.D., Clinical Associate in Surgery.

Lawrence D. Egbert, M.D., Clinical Associate in Anaesthesia.

F. Thomas Gephart, M.D., Clinical Associate in Surgery.

Samuel Gilman, M.D., Clinical Associate in Anaesthesia.

Donald J. Glotzer, Ph.D., M.D., Clinical Associate in Surgery

Phillips Hallowell, M.D., Clinical Associate in Anaesthesia.

William H. Hendren, III, M.D., Clinical Associate in Surgery.

Louis Hermanson, M.D., Clinical Associate in Surgery.

Charles E. Huggins, M.D., Clinical Associate in Surgery.

Raymond N. Kjellberg, M.D., Associate in Surgery at the Massachusetts General Hospital.

Guy W. Leadbetter, M.D., Clinical Associate in Surgery (resigned August 31, 1967).

Ronald A. Malt, M.D., Associate in Surgery at the Massachusetts General Hospital.

Charles F. McKhann, M.D., Associate in Surgery at the Massachusetts General Hospital.

Elliott V. Miller, M.D., Clinical Associate in Anaesthesia (from August 15, 1967).

Charles G. Mixter, Jr., M.D., Clinical Associate in Surgery (resigned July 31, 1967).

John C. Norman, M.D., Associate in Surgery.

Louis N. Pernokas, M.D., Clinical Associate in Surgery.

Ellison C. Pierce, Jr., M.D., Clinical Associate in Anaesthesia.

George S. Richardson, M.D., Clinical Associate in Surgery.

Chester B. Rosoff, M.D., Clinical Associate in Surgery,

Samuel R. Schuster, M.D., Clinical Associate in Surgery.

John Shillito, Jr., M.D., Clinical Associate in Surgery, and Tutor in Medical Science.

Arnold Starr, M.D., Clinical Associate in Surgery.

Kenneth J. Welch, M.D., Clinical Associate in Surgery.

Earle W. Wilkins, Jr., M.D., Clinical Associate in Surgery.

John A. Williams, M.D., Clinical Associate in Surgery.

Francis M. Woods, M.D., Clinical Associate in Surgery.

Herbert D. Adams, M.D., Lecturer on Surgery.

George Austen, Jr., Lecturer on Surgery.

Edward A. Gaensler, M.D., Lecturer on Surgery.

William H. Pearlman, Ph.D., Lecturer on Biological Chemistry in the Department of Surgery.

Cornelius E. Sedgwick, M.D., Lecturer on Surgery.

Kenneth W. Warren, M.D., Lecturer on Surgery.

Adelbert Ames, III, M.D., Research Associate in Biological Chemistry in the Department of Surgery.

James E. Anliker, Ph.D., Research Associate in Anaesthesia.

Philip A. Drinker, Ph.D., Research Associate in Physiology in the Department of Surgery.

Joan W. Flacke, M.D., Research Associate in Anaesthesia.

Kenneth D. Glass, M.B., B.S., Research Associate in Surgery (from September 15, 1967).

James E. Johnson, Ph.D., Research Associate in Biophysics in the Department of Surgery (from September 15, 1967).

Nathan Kaliss, Ph.D., Research Associate in Surgery.

Ruth B. Kundsin, Sc.D., Research Associate in Bacteriology in the Department of Surgery.

Lembit H. Laasberg, Ph.D., Research Associate in Anaesthesia.

Peter B. Lambert, M.B., Ch.B., Research Associate in Surgery.

Padmakar P. Lele, M.D., Dr.Phil., Research Associate in Physiology in the Department of Surgery.

Carlo Palmerio, M.D., Research Associate in Surgery.

Asenath Petrie, Ph.D., Research Associate in Psychology in the Department of Surgery.

Daniel A. Pollen, M.D., Research Associate in Neurobiology in the Department of Surgery.

Selma H. Rutenburg, M.D., Research Associate in Surgery.

Farida M. Saad, Ph.D., Research Associate in Biological Chemistry in the Department of Surgery.

Edgar E. Smith, Ph.D., Research Associate in Surgery.

Albert H. Soloway, Ph.D., Research Associate in Chemistry in the Department of Surgery.

Arthur L. Abrams, M.D., Instructor in Anaesthesia.

Hart Achenbach, M.D., Instructor in Surgery.

Frederick W. Ackroyd, M.D., Instructor in Surgery (from August 1, 1967).

Menelaos A. Aliapoulios, M.D., Instructor in Surgery.

Norman W. Andrew, M.D., Instructor in Anaesthesia.

George E. Battit, M.D., Instructor in Anaesthesia.

Solomon Berg, M.D., Instructor in Surgery.

Alan G. Birtch, M.D., Instructor in Surgery, and Tutor in Medical Science.

Harrison Black, M.D., Instructor in Surgery.

Milton F. Brougham, M.D., Instructor in Surgery.

Hathorn P. Brown, M.D., Instructor in Surgery.

Mortimer J. Buckley, M.D., Instructor in Surgery.

John W. Chamberlain, M.D., Instructor in Surgery.

Cesare G. Coletta, M.D., Instructor in Anaesthesia.

Arnold H. Colodny, M.D., Instructor in Surgery.
John D. Constable, M.D., Instructor in Surgery.
Myriam R. D. Corthesy, M.D., Instructor in Anaesthesia (through September 30, 1967).
John M. Crowe, M.D., Instructor in Surgery.
Brian C. Dalton, M.D., Instructor in Anaesthesia.
Robert E. Desautels, M.D., Instructor in Surgery.
William S. Easton, M.D., Instructor in Anaesthesia.
Albert J. Finck, M.D., Instructor in Anaesthesia.
William F. Flynn, M.D., Instructor in Surgery.
Edward W. Friedman, M.D., Instructor in Surgery, and Tutor in Medical Science.
Joseph H. Galicich, Jr., M.D., Instructor in Surgery.
Philip G. Gallagher, M.D., Instructor in Surgery.
Raymond W. Gibbs, M.D., Instructor in Surgery.
Julius E. Goldblatt, M.D., Instructor in Surgery.
Robert M. Goldwyn, M.D., Instructor in Surgery.
Edward B. Gray, Jr., M.D., Instructor in Surgery.
Harold L. Greenberg, D.M.D., M.D., Instructor in Surgery.
Paul F. Gryska, M.D., Instructor in Surgery.
Eugene A. Guralnick, M.D., Instructor in Surgery.
Hannibal Hamlin, M.D., Instructor in Surgery.
Stephen J. Healey, M.D., Instructor in Surgery.
Zolman Helfand, D.M.D., M.D., Instructor in Surgery.
Carl S. Hoar, Jr., M.D., Instructor in Surgery.
Stephen J. Hoye, M.D., Instructor in Surgery.
Carol H. Johnson, D.D.S., Instructor in Anaesthesia.
Lee G. Kendall, M.D., Instructor in Surgery.
Benjamin J. Kripke, M.D., Instructor in Anaesthesia (resigned October 5, 1967).
James A. Krisher, M.D., Instructor in Anaesthesia.
Lee V. Leak, Ph.D., Instructor in Anatomy in the Department of Surgery.
Feung B. Lee, M.D., Instructor in Surgery.
Richard H. Litner, M.D., Instructor in Surgery.
Edward Lowenstein, M.D., Instructor in Anaesthesia.

Samuel Lowis, M.D., Instructor in Surgery.
Edward M. Mahoney, Jr., D.M.D., M.D., Instructor in Surgery.
David T. Mahony, M.D., Instructor in Surgery.
David E. Marcello, Jr., D.M.D., M.D., Instructor in Surgery.
Phillip S. Marcus, M.D., Instructor in Anaesthesia.
Jack M. Matloff, M.D., Instructor in Surgery.
John B. McKittrick, M.D., Instructor in Surgery.
Bucknam McPeek, M.D., Instructor in Anaesthesia.
Keith Merrill, Jr., M.D., Instructor in Surgery.
Jost J. Michelsen, M.D., Instructor in Surgery.
Tassadduk H. Moghul, M.B., B.S., Instructor in Surgery.
Alfred P. Morgan, Jr., M.D., Instructor in Surgery.
Roger H. Morris, M.D., Instructor in Anaesthesia.
Roger V. Moseley, M.D., Instructor in Surgery (resigned July 31, 1967).
Daniel J. Mullane, M.D., Instructor in Surgery.
Eldred D. Mundth, M.D., Instructor in Surgery.
Nial P. Murray, M.B., Ch.B., Instructor in Anaesthesia.
Louis H. Nason, M.D., Instructor in Surgery.
Robert A. Newton, M.D., Instructor in Surgery.
Edward T. O'Hara, M.D., Instructor in Surgery.
Robert G. Ojemann, M.D., Instructor in Surgery.
Leslie W. Ottinger, M.D., Instructor in Surgery.
Edward C. Parkhurst, M.D., Instructor in Surgery.
Alan D. Perlmutter, M.D., Instructor in Surgery.
Louis F. Plzak, Jr., M.D., Instructor in Surgery.
William C. Quinby, Jr., M.D., Instructor in Surgery.
William S. Rachlin, M.D., Instructor in Surgery.
John P. Remensnyder, M.D., Instructor in Surgery.
Grant V. Rodkey, M.D., Instructor in Surgery.
David A. Roth, M.D., Instructor in Surgery.
John L. Rowbotham, M.D., Instructor in Surgery.
Joseph F. Ruscio, M.D., Instructor in Anaesthesia.
N. Paul Schepis, M.D., Instructor in Anaesthesia.
Heinz K. Schonmetzler, M.D., Instructor in Anaesthesia (from September 1, 1967).

Bernard R. Sears, M.D., Instructor in Surgery.
Arnold L. Segel, M.D., Instructor in Surgery.
Talbot D. Seigne, M.B., Ch.B., Instructor in Anaesthesia.
Donald B. Shahon, M.D., Ph.D., Instructor in Surgery.
John J. Skillman, M.D., Instructor in Surgery, and Tutor in Medical Science.
Ivor S. Smith, M.B., Instructor in Anaesthesia (from September 1, 1967).
Alan R. Spievack, M.D., Instructor in Surgery.
Albert M. Starr, M.D., Instructor in Surgery.
Howard I. Suby, M.D., Instructor in Surgery.
Warren J. Taylor, M.D., Instructor in Surgery.
Howard A. Trachtenberg, M.D., Instructor in Anaesthesia.
Barbara E. Waud, M.D., Instructor in Anaesthesia.
Jess B. Weiss, M.D., Instructor in Anaesthesia.
Frank C. Wheelock, Jr., M.D., Instructor in Surgery.
Malvin F. White, D.M.D., M.D., Instructor in Surgery.
Lorande M. Woodruff, M.D., Instructor in Surgery.
Raleigh L. Wright, M.D., Instructor in Surgery.
Masao Yatsuhashi, M.D., Instructor in Surgery.
Gerald L. Zeitlin, M.B., Ch.B., Instructor in Anaesthesia.
Raphael Adar, M.B., Ch.B., M.D., Assistant in Surgery.
John R. Algird, M.D., Assistant in Anaesthesia.
Richard C. Austin, M.D., Assistant in Surgery.
Edward P. Baker, Jr., M.D., Assistant in Surgery.
Glenn E. Behringer, M.D., Assistant in Surgery.
Harold Bengloff, M.D., Assistant in Surgery.
Ronald Birkenfeld, M.D., Assistant in Surgery.
John W. Braasch, M.D., Ph.D., Assistant in Surgery.
John M. R. Bruner, M.D., Assistant in Anaesthesia (from November 1, 1967).
Charles B. Burbank, M.D., Assistant in Surgery.
Leonard S. Bushnell, M.D., Assistant in Anaesthesia.
Edwin L. Carter, M.D., Assistant in Surgery.
Francis L. Comunale, M.D., Assistant in Anaesthesia.
Joseph W. Copel, M.D., Assistant in Surgery.

R. Clement Darling, M.D., Assistant in Surgery.
Enrico F. DeMaio, M.D., Assistant in Surgery.
Andrew K. Dewar, M.B., Ch.B., Assistant in Anaesthesia (from December 1, 1967).
Chester J. Dexter, M.D., Assistant in Surgery.
Robert F. Dine, M.D., Assistant in Surgery.
Joseph F. Dorsey, M.D., Assistant in Surgery.
Nancy J. Engeset (Van der Molen), M.D., Assistant in Anaesthesia (through October 31, 1967).
Angelo J. Eraklis, M.D., Assistant in Surgery.
John F. Fagan, M.D., Assistant in Surgery.
Charles A. Fager, M.D., Assistant in Surgery.
Frank W. Garran, Jr., M.D., Assistant in Surgery.
Bennie Geffin, M.B., Ch.B., Assistant in Anaesthesia.
Richard F. Gibbs, M.D., Assistant in Anaesthesia.
George H. Gifford, Jr., M.D., Assistant in Surgery.
John A. Goodwin, D.A., Assistant in Anaesthesia.
Stanley K. Gordon, M.D., Assistant in Surgery.
Ernest Grable, M.D., Assistant in Surgery.
John A. Hakes, M.B., Ch.B., Assistant in Anaesthesia (through November 30, 1967).
Irad B. Hardy, Jr., M.D., Assistant in Surgery.
John M. Head, M.D., Assistant in Surgery.
Stephen E. Hedberg, M.D., Assistant in Surgery.
Dorothy K. Heerdegen, M.D., Assistant in Anaesthesia.
Bruce M. Henderson, M.B., Ch.B., Assistant in Surgery (from September 1, 1967).
Hans T. Henriksen, M.D., Assistant in Anaesthesia (from August 1, 1967).
Guenther E. Herpfer, M.D., Assistant in Anaesthesia (through September 30, 1967).
Hyman A. Hershman, M.D., Assistant in Surgery.
Clement A. Hiebert, M.D., Assistant in Surgery.
Dorothy A. Hill, M.B., B.S., Assistant in Anaesthesia.
Lucius T. Hill, Jr., M.D., Assistant in Surgery.

Reidar Hoff, M.D., Assistant in Anaesthesia (through September 30, 1967).

Alfred T. Joseph, D.M.D., M.D., Assistant in Surgery.

Karen S. Kagey, M.D., Assistant in Surgery (from September 15, 1967).

John W. D. Knox, M.B., Ch.B., Assistant in Anaesthesia (from January 1, 1968).

Constantine I. Kostas, M.D., Assistant in Surgery.

Clinton N. Koufman, M.D., Assistant in Surgery.

Susanne J. Lamdin, M.D., Assistant in Anaesthesia.

Edwin F. Lang, Jr., M.D., Assistant in Surgery.

Lucy Lee, M.D., Assistant in Anaesthesia.

Sabin S. Levenson, M.D., Assistant in Surgery.

Howard J. Lewenstein, M.D., Assistant in Surgery.

David J. Lightman, M.B., B.S., D.A., Assistant in Anaesthesia (from November 1, 1967).

John B. Lloyd, M.D., Assistant in Surgery.

John A. Lynch, M.D., Assistant in Surgery.

Edward J. Mahoney, M.D., Assistant in Anaesthesia.

Rita A. Manzi, M.D., Assistant in Anaesthesia.

Leo T. McCallum, M.D., Assistant in Surgery.

Eugene F. McDonough, Jr., M.D., Assistant in Surgery.

Carroll C. Miller, M.D., Assistant in Surgery.

John D. Murphy, M.D., Assistant in Anaesthesia (resigned July 31, 1967).

Rennee B. O'Sullivan, M.D., Assistant in Surgery.

Larry K. Page, M.D., Assistant in Surgery.

Wynne L. Parry, M.B., Ch.B., Assistant in Anaesthesia (from October 1, 1967).

Anthony S. Patton, M.D., Assistant in Surgery.

Napier G. Penlington, M.B., Ch.B., Assistant in Anaesthesia (through May 14, 1968).

Anne W. Phillips, M.D., Assistant in Surgery.

Marvin J. Powell, M.D., Assistant in Surgery.

Valerie J. Prior, M.B., B.S., Assistant in Anaesthesia (from January 1, 1968).

Francis X. Rockett, M.D., Assistant in Surgery.
William P. Rogers, Jr., M.D., Assistant in Surgery.
Harold A. Rudy, M.D., Assistant in Surgery.
S. Peter Sarris, M.D., Assistant in Surgery.
Robert Shapiro, M.D., Assistant in Surgery.
Wesley R. Shaw, M.D., Assistant in Surgery.
Melvin I. Shoul, M.D., Assistant in Surgery.
Laurence A. Simons, M.B., B.S., Assistant in Anaesthesia (from August 15, 1967).
William L. Strickler, M.D., Assistant in Surgery.
Socorro D. Tamase, M.D., Assistant in Anaesthesia.
Judith A. Tassie, M.B., B.S., Assistant in Anaesthesia.
Robin A. Van der Molen, M.B., Ch.B., Assistant in Anaesthesia.
Philip H. Walker, M.D., Assistant in Surgery.
Sarita G. Walzer, M.D., Assistant in Anaesthesia.
Chiu-an Wang, M.D., Assistant in Surgery.
Harold A. Wilkinson, M.D., Ph.D., Assistant in Surgery.
William A. Yorzyk, M.D., Assistant in Anaesthesia (from August 1, 1967).
Shichisaburo Abo, M.D., Research Fellow in Surgery.
Joseph L. Alexander, M.D., Research Fellow in Surgery.
Akahito Aoki, M.D., Research Fellow in Surgery.
Jorge E. Arenas, M.D., Research Fellow in Surgery.
Wayne E. Baldwin, M.D., Research Fellow in Anaesthesia (from August 1, 1967).
Robert H. Bartlett, M.D., Research Fellow in Surgery.
Robert D. Bastron, M.D., Research Fellow in Anaesthesia.
Philippe F. Benda, M.D., Research Fellow in Surgery (through October 31, 1967).
Erik J. Berg, M.D., Research Fellow in Surgery.
Paul R. Berry, M.B., Ch.B., Research Fellow in Anaesthesia.
George Blackburn, M.D., Research Fellow in Surgery.
Conrado C. Bondoc, M.D., Research Fellow in Surgery.
William W. Bonney, M.D., Research Fellow in Surgery.
Sergio Brenner, M.D., Research Fellow in Surgery (through March 31, 1968).

Richard L. Burleson, M.D., Research Fellow in Surgery.

Carl F. Cady, M.D., Research Fellow in Anaesthesia (from September 1, 1967).

Brian H. Casey, M.B., B.S., Research Fellow in Surgery (resigned November 30, 1967).

Federico Chavez-Peon, M.D., Research Fellow in Surgery (from August 15, 1967).

Aloysius J. Chen, M.D., Research Fellow in Surgery.

Chung H. Cho, M.D., Research Fellow in Anaesthesia.

Christos Christoforides, M.D., Research Fellow in Anaesthesia (from September 1, 1967).

John J. Collins, Jr., M.D., Research Fellow in Surgery.

Arnold G. Coran, M.D., Research Fellow in Surgery.

Victor H. Covelli, M.D., Research Fellow in Surgery.

Robert M. Crowell, M.D., Research Fellow in Surgery.

Giuliano Daddi, M.D., Research Fellow in Surgery.

Arnold G. Diethelm, M.D., Research Fellow in Surgery (resigned August 31, 1967).

Slobodan Dragacevic, M.D., Research Fellow in Surgery (from October 1, 1967).

Michel A. Duvelleroy, M.D., Research Fellow in Anaesthesia (through August 31, 1967).

Chester J. Flynn, M.D., Research Fellow in Anaesthesia.

Dominique J. Franco, M.D., Research Fellow in Surgery (from November 1, 1967).

David G. Fromm, M.D., Research Fellow in Surgery.

Burton D. Goldstein, M.D., Research Fellow in Anaesthesia.

James R. W. Gumpert, M.B., Ch.B., Research Fellow in Surgery (resigned December 31, 1967).

Ryoji Hagiwara, D.M.Sc., M.D., Research Fellow in Surgery (from August 15 ,1967).

James M. Hartsuck, M.D., Research Fellow in Surgery.

C. Robert Hayes, M.D., Research Fellow in Surgery.

Simindokht Hazrati, M.D., Research Fellow in Anaesthesia.

Mohammad A. Ilahi, M.B., B.S., Research Fellow in Surgery (through March 31, 1968).

Johannes Jeekel, M.D., Research Fellow in Surgery (through May 31, 1968).

Ronald G. Kay, M.B., Ch.B., Research Fellow in Surgery (from August 1, 1967).

Richard E. Knab, M.D., Research Fellow in Surgery (from October 1, 1967).

Yasushi Kojima, M.D., Research Fellow in Surgery.

Charles J. Kopriva, M.D., Research Fellow in Anaesthesia (from August 1, 1967).

Paul L. Kornblith, M.D., Research Fellow in Surgery.

Moti L. Kothari, M.B., B.S., Research Fellow in Surgery.

Robert K. J. Koumans, M.D., Research Fellow in Surgery (from January 1, 1968).

Jean-Pierre Lambilliotte, M.D., Research Fellow in Surgery (through September 30, 1967).

Frederick C. Lane, M.D., Research Fellow in Surgery.

Alejandro Latzina, M.D., Research Fellow in Surgery.

Michael D. Lemieux, M.D., Research Fellow in Surgery.

Joel R. Lowenthal, M.D., Research Fellow in Surgery (through July 15, 1967).

John D. MacArthur, M.D., Research Fellow in Surgery.

Allan S. MacDonald, M.D., Research Fellow in Surgery (from September 1, 1967).

Ian McColl, M.B., B.S., Research Fellow in Surgery (from September 1, 1967 through December 31, 1967).

Mary P. Mehrez, M.D., Research Fellow in Anaesthesia (from September 1, 1967).

Andrzej H. Michalski, M.D., Research Fellow in Surgery (resigned October 31, 1967).

Ryuji Mizumoto, M.D., D.M.Sc., Research Fellow in Surgery (from October 15, 1967).

Jose E. Montiero Da Cunha, M.D., Research Fellow in Surgery (from September 1, 1967).

Takesada Mori, M.D., Research Fellow in Surgery (through July 31, 1967).

Nicholas E. O'Connor, M.D., Research Fellow in Surgery.

Ryozo Omoto, M.D., D.M.Sc., Research Fellow in Surgery (from August 1, 1967).

Hiromichi Ono, M.D., Research Fellow in Surgery (through October 31, 1967).

Jashwant Patel, Ph.D., M.D., Research Fellow in Surgery.

Maurice Perriard, M.D., Research Fellow in Surgery.

Graham C. Priestley, M.D., Research Fellow in Surgery.

Max Rendall, M.B., Ch.B., Research Fellow in Surgery.

Aviezer Rippin, M.D., Research Fellow in Surgery.

Juan E. Roda, M.B., Ch.B., Research Fellow in Surgery (through October 31, 1967).

Sigurd Rosenkaimer, M.D., Research Fellow in Anaesthesia.

Harry Ross, M.B., B.S., Research Fellow in Surgery.

Joseph W. Rubin, M.D., Research Fellow in Surgery.

Yash Vir Sachdev, M.B., B.S., Research Fellow in Surgery (through September 30, 1967).

Henry H. Schmidek, M.D., Research Fellow in Surgery (through December 31, 1967).

Jaen-min Sheh, M.D., Research Fellow in Surgery (from August 1, 1967).

Akira Shintani, M.D., Research Fellow in Surgery (through August 14, 1967).

Kenro Shirahige, M.D., Research Fellow in Surgery (from September 1, 1967).

Shivdev A. Singh, M.B., B.S., Research Fellow in Surgery (resigned September 30, 1967).

Jack S. Sizer, M.D., Research Fellow in Surgery.

Arnold Sladen, M.B., Research Fellow in Anaesthesia.

Richard N. Smith, M.D., Research Fellow in Surgery.

David M. Sokol, M.D., Research Fellow in Surgery.

Kuniyuki Someda, M.D., D.M.Sc., Research Fellow in Surgery (through August 31, 1967).

Katsumi Suematsu, M.D., Research Fellow in Surgery (through August 31, 1967).

Kozo Suma, M.D., D.Sc., Research Fellow in Surgery.

Charles W. Thum, M.D., Research Fellow in Surgery.

Ludgerio D. Torres, M.D., Research Fellow in Surgery.

Michael C. Trachtenberg, Ph.D., Research Fellow in Surgery (from August 1, 1967).

Kenneth W. Travis, M.D., Research Fellow in Anaesthesia (from September 1, 1967).

Charles G. Watson, M.D., Research Fellow in Surgery.

John S. Willens, M.D., Research Fellow in Anaesthesia (from October 1, 1967).

Sybil W. Woo, M.D., Research Fellow in Anaesthesia.

Zenya Yamazaki, M.D., D.M.Sc., Research Fellow in Surgery (through December 31, 1967).

Shinji Yuasa, M.D., Ph.D., Research Fellow in Surgery.

Ihnsik Yun, M.D., Research Fellow in Surgery.

Walter Zuckerman, M.D., Research Fellow in Surgery.

Falke W. Zuschneid, M.D., Research Fellow in Surgery (through December 31, 1967).

Harry Y. Azadian, M.D., Teaching Fellow in Surgery (from September 1, 1967 through October 31, 1967).

Bennie Bub, M.B., Ch.B., Teaching Fellow in Surgery (through December 1, 1967).

Willard M. Daggett, M.D., Teaching Fellow in Surgery.

Carl W. Konvolinka, Jr., M.D., Teaching Fellow in Surgery (through August 31, 1967).

Raphael H. Levey, M.D., Teaching Fellow in Surgery (through December 31, 1967).

James B. McGovern, M.D., Teaching Fellow in Surgery (from January 1, 1968).

Alan D. Rosenthal, M.D., Teaching Fellow in Surgery.

Edward S. Tank, Jr., Teaching Fellow in Surgery (resigned December 31, 1967).

John M. Tew, Jr., Teaching Fellow in Surgery (through December 31, 1967).

Robert P. Timothy, M.D., Teaching Fellow in Surgery (through December 31, 1967).

Henry B. Tyler, M.D., Teaching Fellow in Surgery (resigned September 30, 1967).

Charles J. Wittmann, Jr., M.D., Teaching Fellow in Surgery (from November 1, 1967 through December 31, 1967).

Robert M. Zollinger, Jr., M.D., Arthur Tracy Cabot Teaching Fellow in Surgery (through December 31, 1967).

Required Courses

Instruction will be given by amphitheatre clinics, lectures, and conferences, together with section teaching in the wards and out-patient departments of the hospitals and in the surgical research laboratories.

Surgery. *Second Year.* — The course is designed to correlate preclinical sciences with the basic principles underlying the surgical management of injury and disease. The Department of Surgery joins with the Department of Medicine in a series of exercises in physical diagnosis and laboratory medicine to offer unified instruction in case taking. Practical exercises are offered that introduce the student to basic surgical techniques.

Surgery. *Introduction to the Clinic.* — This program, conducted on a twelve-week basis is considered as a unit, with approximately one third of the total time devoted to surgical instruction, one third to internal medicine, and one third to the various special interests in both medicine and surgery. During the course of surgery, intensive instruction in surgical disease, surgical pathology, surgical treatment and surgical techniques is given at the B.I.H., B.C.H., M.G.H., and P.B.B.H.

Surgery. *Principal Clinical Year.* — The twelve month clinical year is divided into four three month periods. For each student one of these periods will be devoted to surgery at the Beth Israel Hospital, the Boston City Hospital, the Massachusetts General Hospital or the Peter Bent Brigham Hospital. Certain surgical specialty interests are included in the surgery quadrimester, such as Urology, Anaesthesia and Neurosurgery as well as Outpatient and Emergency Ward experience. Other surgical interests and special areas such as Orthopedics, Otolaryngology and Ophthalmology are included in another quadrimester.

SECOND YEAR

Section work, case taking, lectures, and demonstrations on the physical diagnosis of surgical disease in conjunction with the

HOURS

Department of Medicine. Drs. SILEN, MCDERMOTT, MOORE, RUSSELL, and ASSOCIATES. B.I.H., B.C.H., M.G.H., and P.B.B.H. Each student has twenty-four exercises. 84

INTRODUCTION TO THE CLINIC

Exercises in sections in the wards and outpatient departments at the B.I.H., B.C.H., M.G.H., and P.B.B.H. 121

PRINCIPAL CLINICAL YEAR

Clinical Clerkship: B.I.H. (Dr. SILEN and ASSOCIATES); B.C.H. (Dr. MCDERMOTT and ASSOCIATES); M.G.H. (Dr. RUSSELL and ASSOCIATES); P.B.B.H. (Dr. MOORE and ASSOCIATES). 480

Fourth Year Elective Courses *

A wide range of special opportunities is made available in the various surgical departments for additional clinical experience and for participation in programs of laboratory investigation related to current surgical problems (see below).

BLOCK COURSES

501M. Clinical Surgery. Dr. MCDERMOTT and ASSOCIATES.
502M. Children's Surgery. Dr. GROSS and ASSOCIATES. (*Same course as Pediatrics 527M.*)
504M. Clinical Application of Surgical Biology. Dr. RUSSELL and ASSOCIATES.
505M. Emergency Care — Surgical and Medical. Drs. WILKINS and BIRD.
506M. Infectious Disease: Surgical Infection. Dr. BURKE and ASSOCIATES.
507M. Endocrinology with Special Reference to the Ovary. Drs. ULFELDER, G. S. RICHARDSON, MCARTHUR, and SCULLY. (*Same course as Obstetrics and Gynecology 513M.*)
508M. Pulmonary I. Chronic Chest Disease: Medical and Surgical Aspects. Drs. SCANNELL and BIRD.
509M. Pulmonary II. Management of Acute and Chronic Respiratory Insufficiency. Dr. PONTOPPIDAN and ASSOCIATES.
510M. Cardiovascular Physiology. Dr. W. G. AUSTEN.
511M. Cardiac Surgery. Drs. W. G. AUSTEN and SCANNELL.

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

512M. Management of the Patient for Anaesthesia and Surgery. Drs. Beecher, Todd, and Associates.
513M. Pediatric Surgery. Dr. Hendeen. (*Same course as Pediatrics 525M.*)
514M. Advanced Surgery. Drs. R. Warren, Wheeler and Associates.
516M. Surgical Study and Clinical Care. Dr. F. D. Moore and Associates.
523M. Spinal Cord Injury. Dr. H. S. Talbot and Associates.
525M. Advanced Clinical Surgery. Dr. Silen and Associates.
526M. Thoracic Surgery. Dr. H. A. Frank.
527M. Peripheral Vascular Surgery. Dr. E. D. Frank.
528M. Clinical Studies of Antibiotic Therapy. Dr. A. M. Rutenberg.
529M. Clinical Neurosurgery. Dr. Sweet and Associates.
530M. Clinical Gastrointestinal Disease (Medical and Surgical). Drs. J. R. Brooks, Snodgrass, and Associates.
531M. Ambulatory Surgery. Drs. Behringer, Wilkins, and Associates.
532M. Plastic and Reconstructive Surgery. Drs. Cannon and Constable.
533M. Clinical Surgery. Dr. Rodkey.
535M. Vascular Diseases. Drs. Deykin and Salzman. (*Same course as Medicine 505M.*)

LONGITUDINAL COURSES

703. Clinical and Investigative Gastroenterology. Dr. Osborne and Associates, Dr. Zamchek and Associates. (*Same course as Medicine 715.*)
704. Pediatric Urologic Problems. Dr. Perlmutter. (*Same course as Pediatrics 701.*)
706. Trauma. Drs. F. D. Moore, W. T. Green, Banks, Quigley, Matson, Harrison, Vandam, and Morgan. (*Same course as Orthopedic Surgery 701.*)
707. Surgical Biology. Dr. Russell and Associates.
709. Molecular Mechanisms in Neoplasia. Dr. Wallach and Associates. (*Same course as Biochemistry 704, Interdepartmental Course 755, and Biochemistry 222, Faculty of Arts and Sciences.*)

Interdepartmental and Special Courses

Fourth Year Elective Courses *

BLOCK COURSES

602M. Biology of Malignant Disease. Drs. Raker, Farber, Lisco, Zamecnik, Hiatt, Kohn, Wilson, Folkman, and Associates.

604M. Ambulatory Medicine. Drs. Stoeckle, J. P. Connelly, Sidel, Duhl, and Knowles.

605M. Experimental Biology of Oncolytic and Immunosuppressive Agents. Dr. Farber and Associates.

LONGITUDINAL COURSES

751. Clinical Pharmacology of Oncolytic and Immunosuppressive Agents. Drs. T. C. Hall, Farber, and Associates.

752. Metabolic Consequences of Neoplasia in Man. Drs. T. C. Hall, Nathanson, Thorn, Farber, and Associates. (*Same course as Medicine 719.*)

753M. Family Health Care Program. Drs. Alpert, J. W. Brown, Bullard, Buxbaum, Feinbloom, Heagarty, Robbins, and Associates. (*Same course as Pediatrics 702M.*)

754. Hospital Clinical Pharmacology. Dr. T. C. Hall and Associates. (*Same course as Medicine 720.*)

755. Molecular Mechanisms in Neoplasia. Dr. Wallach and Associates. (*Same course as Biochemistry 704, Surgery 709, and Biochemistry 222, Faculty of Arts and Sciences.*)

756. The Rise of Modern Medicine. Dr. Mani.

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

Tropical Public Health

This course is given by the following members of the Faculty of the Harvard School of Public Health.

Thomas H. Weller, M.D., LL.D., Richard Pearson Strong Professor of Tropical Public Health, and Head of the Department.

Franklin A. Neva, M.D., John La Porte Given Professor of Tropical Public Health.

Eli Chernin, S.D., Associate Professor of Tropical Public Health.

Thomas E. Frothingham, M.D., Associate Professor of Tropical Public Health.

Edward H. Michelson, Ph.D., Assistant Professor of Tropical Public Health.

Steve C. Pan, M.D., M.P.H., Assistant Professor of Tropical Public Health.

Andrew Spielman, S.D., Assistant Professor of Tropical Public Health.

Required Course

Parasitology A. *Second Year.* — The important helminth and protozoan parasites of man are considered with reference to their geographic distribution, identification, mode of transmission, pathogenesis, immune reactions and methods for prevention and control. Clinical aspects and chemotherapy of parasitic diseases are discussed. Emphasis is given to methods of laboratory diagnosis.

SECOND YEAR	HOURS
Lectures, demonstrations, and laboratory work. Dr. Weller and Staff. Monday, Wednesday, and Friday afternoons, January and February	41

Elective and Voluntary Courses

Courses offered by the Department of Tropical Public Health in the School of Public Health are open, as electives, to medical students. The research facilities of the Department are available for elective work by qualified students, and opportunities for experience in tropical areas may be arranged. (See also page 273).

School of Public Health

The courses listed below are given by members of the Faculty of the School of Public Health and are offered as elective courses to members of the fourth year class of the Medical School.

*Fourth Year Elective Courses**

LONGITUDINAL COURSES

701. Statistical Methods in Research. Drs. Reed, Worcester, and Drolette. (*Same course as Biostatistics 3 c,d, S.P.H.*)
702. Epidemiology of Non-Infectious Disease. Dr. MacMahon and Staff. (*Same course as Epidemiology 3 c,d, S.P.H.*)
705. Public Health and Laboratory Aspects of Infectious Diseases of Microbial Origin. Dr. Murray and Associates. (*Same course as Microbiology 4c, S.P.H.*)
706. Intracellular Microorganisms Pathogenic for Man. Drs. Murray, Bell, Chang, and Associates. (*Same course as Microbiology 13d, S.P.H*).
707. Special Topics in Respiratory Physiology. Dr. Mead and Associates. (*Same course as Physiology 6d, S.P.H.*)
708. Radiation Biology. Dr. Little. (*Same course as Physiology 7c,d, S.P.H.*)
709. Problems in Tropical Health. Dr. Weller and Guest Lecturers. (*Same course as Tropical Public Health 3d, S.P.H.*)
710. Public Health Aspects of Parasitic Diseases. Drs. Pan, Neva, Frothingham, and Associates. (*Same course as Tropical Public Health 4c, S.P.H.*)
711. Introduction to Molluscs of Public Health Importance. Dr. Michelson. (*Same course as Tropical Public Health 7d, S.P.H.*)
712. Introduction to Medical Entomology. Dr. Spielman. (*Same course as Tropical Public Health 9d, S.P.H.*)
713. Clinical and Pathologic Features of Tropical Diseases. Drs. Neva and von Lichtenberg. (*Same course as Tropical Public Health 5c, S.P.H.*)
714. Tuberculosis. Dr. D. Koch-Weser and Miss Campbell. (*Same course as Microbiology and Tropical Public Health 6c, S.P.H.*)
715. Nutritional Aspects of Human Disease. Drs. Herrera-Acena, Lown, and Miller. (*Same course as Nutrition 6c,d, S.P.H.*)
716. Epidemiology and Control of Schistosomiasis. Drs. Michelson, Chernin, Pan, and Weller. (*Same course as Tropical Public Health 8d, S.P.H.*)

* See *A Schedule of Fourth Year Elective Courses and Research Opportunities 1967–1968* for additional information.

717. Current Problems in Malariology. Drs. Chernin, Spielman, Weller, and Associates. (*Same course as Tropical Public Health 10d, S.P.H.*)
718. Cross-Cultural Psychiatry. Dr. Murphy. (*Same course as Behavioral Sciences 6d, S.P.H.*)
719. Critical Issues in Community Psychiatry. Drs. Beiser and D. S. Shapiro. (*Same course as Behavioral Sciences 7c, S.P.H.*)
720. Health and Illness in Cross-Cultural Perspective. Dr. Murphy. (*Same course as Behavioral Sciences 8c,d, S.P.H.*)
721. Sociological Functioning of Health Agencies. Dr. Croog. (*Same course as Behavioral Sciences 9c, S.P.H.*)
722. Training in Mental Health Counseling. Dr. D. S. Shapiro. (*Same course as Behavioral Sciences 11d, S.P.H.*)

DEGREES CONFERRED

On June 15, 1967, One Hundred Fifty Degrees were Conferred as Follows:

M.D.

Robert Steven Aaron, a.b., (*Columbia Univ.*) 1963.
Adetunji Adelekan, s.b. (*Ohio State Univ.*) 1963, b.m.s. (*Dartmouth Coll.*) 1965.
John David Asher, a.b. 1961.
Charles Miller Bagley, Jr., a.b. (*Carleton Coll.*) 1963.
Thomas Van Ness Ballantine, a.b. (*Princeton Univ.*) 1963.
Edward Quint Bayard, a.b. 1963, b.m.s. (*Dartmouth Coll.*) 1965.
Kenneth Myles Berc, a.b. (*Colgate Univ.*) 1963.
Francis William Bernet, a.b. (*Coll. of the Holy Cross*) 1963.
Dwight Montgomery Bissell, Jr., a.b. 1962.
James Millar Bonnar, 3d, a.b. 1963.
Gary Jules Brauner, a.b. (*Yale Univ.*) 1963.
William Eric Bucknall, a.b. (*Univ. of Texas*) 1963.
Robert Mills Carolan, a.b. (*Coll. of the Holy Cross*) 1963, b.m.s. (*Dartmouth Coll.*) 1965.
William Ivor Christensen, a.b. 1963, b.m.s. (*Dartmouth Coll.*) 1965.
Alan Daniel, a.b. (*Amherst Coll.*) 1963.
Valentina Elizabeth Clark Donahue, a.b. (*Barnard Coll.*) 1962.
John Merrill Dorman, a.b. (*Williams Coll.*) 1963.
Lanie Earl Eagleton, a.b. (*Hamilton Coll.*) 1963.
Katherine Alden Finseth, a.b. 1963.
John Robert Fischer, a.b. (*Dartmouth Coll.*) 1963, s.b. in med. (*Univ. of North Dakota*) 1965.
Richard Paul Floyd, a.b. (*Middlebury Coll.*) 1963, b.m.s. (*Dartmouth Coll.*) 1965.
Virginia Renée Galton, a.b. (*Univ. of Rochester*) 1964.
Stanton Philip Goldstein, a.b. 1963.
James Samuel Gordon, a.b. 1962.
Kenneth Paul Gorelick, a.b. (*Rutgers Univ.*) 1962.
Andrew Frank Greene, a.b. (*Amherst Coll.*) 1963.

Walter Joseph Griffin, Jr., a.b. (*Coll. of the Holy Cross*) 1963, b.m.s. (*Dartmouth Coll.*) 1965.
John Gunder Gunderson, b.m.s. (*Dartmouth Coll.*) 1965.
James Paul Gustafson, a.b. 1963.
Thomas Gordon Gutheil, a.b. 1963.
Charles Robert Hayes, a.b. (*Yale Univ.*) 1962.
David Seth Hirschfeld, a.b. 1963.
Robert Henry Holmes, a.b. (*Amherst Coll.*) 1963.
William Steven Holt, s.b. (*Bates Coll.*) 1963.
Mark Stephen Horwich, a.b. (*Dartmouth Coll.*) 1963, b.m.s. (*ibid.*) 1965.
Alfred Lewis Hurwitz, a.b. 1963.
Stephen Francis Jencks, a.b. 1962.
Burt Powers Johnson, a.b. 1962.
Neil Howard Joseph, s.b. (*Union Coll.*) 1961.
Lawrence Jerome Kadish, a.b. (*Princeton Univ.*) 1963.
Jesse Lewis Kahn, a.b. (*Brooklyn Coll.*) 1963.
Harry Louis Safir Knopf, a.b. 1963.
Oliver Marc Korshin, a.b. (*St. John's Coll., Maryland*) 1963.
Ione Anne Kourides, a.b. (*Wellesley Coll.*) 1963.
David Allen Kumpe, a.b. (*Oberlin Coll.*) 1963.
Philip John Landrigan, a.b. (*Boston Coll.*) 1963.
Alexander Basil Latty, a.b. (*Dartmouth Coll.*) 1964, b.m.s. (*ibid*) 1965.
Gerald Kenneth Lazar, a.b. (*Brooklyn Coll.*) 1963.
Stanley Bryant Levine, s.b. (*Tufts Univ.*) 1963.
George Eric Lewinnek, a.b. (*Carleton Coll.*) 1963.
Raymond Liggio, a.b. (*Yale Univ.*) 1963, b.m.s. (*Dartmouth Coll.*) 1965.
Michael Joseph Lisanti, a.b. (*Cornell Univ.*) 1963.
Matthew Samuel Loewenstein, s.b. (*Union Coll.*) 1962.
Oluwatope Abimbola Mabogunje, a.b. (*Brandeis Univ.*) 1963.
Bruce Albert MacDougal, a.b. (*Williams Coll.*) 1963.
Mark William Mahnke, a.b. 1963, b.m.s. (*Dartmouth Coll.*) 1965.
Ira Joel Malter, a.b. (*Columbia Univ.*) 1963.
Eugene Jerome Mark, a.b. (*Oberlin Coll.*) 1962.
Nicholas Anthony Mastroianni, Jr., a.b. 1962.
Brian Gerard McAlary, a.b. (*Colby Coll.*) 1963, b.m.s. (*Dartmouth Coll.*) 1965.

John Edward McGowan, Jr., B.M.S. (*Dartmouth Coll.*) 1965.
James Edward McLennan, S.B. (*Stanford Univ.*) 1962.
Roberta Ann Mills, S.B. (*Allegheny Coll.*) 1963.
William Evans Mitch, 2d, A.B. 1963.
Perry Brown Molinoff, A.B. 1962.
Peter Bryan Mooney, A.B. (*Univ. of New Hampshire*) 1959, S.M. (*ibid.*) 1963, B.M.S. (*Dartmouth Coll.*) 1965.
Ira Alan Morris, A.B. (*Boston Univ.*) 1963.
Peter Nelson Morrison, A.B. (*Columbia Univ.*) 1963.
William Mont Murphy, A.B. (*Drake Univ.*) 1963.
Michael John Murray, A.B. (*State Univ. of Iowa*) 1963.
Uberto Tommaso Muzzarelli, A.B. (*Amherst Coll.*) 1961.
John Paul Nelson, A.B. (*Univ. of Notre Dame*) 1962.
Jeffrey Hooker Newhouse, A.B. (*Princeton Univ.*) 1963.
(Medrose) Temidowooluwa Oluwalajuwomi Ogunye, A.B., (*Western Reserve Univ.*) 1963.
Daniel Patrick O'Neill, S.B. (*Massachusetts Inst. of Technology*) 1963.
Lawrence Stone Phillips, A.B. (*Swarthmore Coll.*) 1963.
William Reid Pitts, Jr., A.B. (*Princeton Univ.*) 1963.
Donald William Putnoi, A.B. (*Columbia Univ.*) 1963.
Meryl Henry Ram, B.M.S. (*Dartmouth Coll.*) 1965.
John Routt Reigart, 2d, A.B. (*Dartmouth Coll.*) 1964, B.M.S. (*ibid.*) 1965.
Gerald David Rogell, A.B. 1963.
Gerald James Roth, A.B. 1963.
Robert Lionel Ruberg, A.B. (*Haverford Coll.*) 1963.
William Bart Saxbe, Jr., A.B. (*Amherst Coll.*) 1963.
Paul Clayton Schnitker, A.B. (*Yale Univ.*) 1963.
Anton Cornelis Schoolwerth, A.B. (*Princeton Univ.*) 1963.
John Gordon Schuler, A.B. (*Dartmouth Coll.*) 1964, B.M.S. (*ibid.*) 1965.
William Dana Segel, A.B. (*Dartmouth Coll.*) 1964, B.M.S. (*ibid.*) 1965.
Warren Sewall, S.B. (*Massachusetts Inst. of Technology*) 1963, B.M.S. (*Dartmouth Coll.*) 1965.
Daniel William Shapiro, S.B. (*Massachusetts Inst. of Technology*) 1963.
Budd Norman Shenkin, A.B. 1963.

David Jay Silver, a.b. (*Amherst Coll.*) 1963.
Michael Anthony Simmons, a.b. 1963.
Karl Lawrence Singer, a.b. 1963.
Vincent Raymond Sites, a.b. (*Johns Hopkins Univ.*) 1963, b.m.s. (*Dartmouth Coll.*) 1965.
Donald Angehr Smith, a.b. 1963.
Douglas Grant Smith, a.b. (*Pomona Coll.*) 1963.
Alfred Sommer, s.b. (*Union Coll.*) 1963.
Stephen Alan Stein, a.b. (*Dartmouth Coll.*) 1964, b.m.s. (*ibid.*) 1965.
Jared Genji Sugihara, a.b. (*Yale Univ.*) 1963.
Pamela Pauline Walker, a.b. 1963.
Anthony Monroe Weikel, s.b. (*Massachusetts Inst. of Technology*) 1963.
Gordon Campbell Weir, a.b. (*Dartmouth Coll.*) 1963.
John Robert Wesley, a.b. 1963.
Eric Shaw White, s.b. (*Yale Univ.*) 1963, b.m.s. (*Dartmouth Coll.*) 1965.
Joerg Constantine Winterer, a.b. (*Haverford Coll.*) 1963, b.m.s. (*Dartmouth Coll.*) 1965.
Jonathan Kurland Wise, a.b. 1963, b.m.s. (*Dartmouth Coll.*) 1965.
Carol Stone Wolman, a.b. (*Radcliffe Coll.*) 1962.
Peter Farnum Wright, a.b. (*Dartmouth Coll.*) 1964, b.m.s. (*ibid.*) 1965.
Samuel Donald Zaentz, a.b. (*Williams Coll.*) 1963.

M.D. cum laude for Thesis in a Special Field

David Gregory Johnson, a.b. (*Yale Univ.*) 1962, b.m.s. (*Dartmouth Coll.*) 1964.
William Walter Meissner, a.b. (*St. Louis Univ.*) 1956, a.m. (*ibid.*) 1957, ph.l. (*ibid.*) 1957, s.t.b. (*Woodstock Coll.*) 1960, s.t.l. (*ibid.*) 1962.

M.D. cum laude

Lloyd Axelrod, a.b. (*Princeton Univ.*) 1963.
Mona Louise Bleiberg, a.b. (*Univ. of Chicago*) 1963.
Judith Ann Fingert Chused, a.b. (*Wellesley Coll.*) 1963.
Thomas Morton Chused, a.b. 1962.
Seymour Beach Conger, a.b. (*Amherst Coll.*) 1963.
Richard Donald Diamond, a.b. (*Brooklyn Coll.*) 1963.

Raphael Dolin, A.B. 1963.
Douglas Bloom Dorner, A.B. (*Amherst Coll.*) 1963.
Tom Robert Dunham, A.B. (*Willamette Univ.*) 1963, B.M.S. (*Dartmouth Coll.*) 1965.
Miriam Bonita Dushman, A.B. (*Barnard Coll.*) 1959, S.M. (*Massachusetts Inst. of Technology*) 1964.
Leonard Ellman, A.B. 1963.
Albert John Erdmann, 3d, A.B. 1963.
Herrman Harris Funkenstein, A.B. (*Princeton Univ.*) 1961, B.A. (*Univ. of Oxford*) 1963.
Richard Alfred Garibaldi, A.B. 1963, B.M.S. (*Dartmouth Coll.*) 1965.
Philip Lawrence Goldsmith, A.B. (*Cornell Univ.*) 1964.
Robert Joseph Irwin, Jr., A.B. (*Denison Univ.*) 1963.
Fredric Jarrett, A.B. (*Dartmouth Coll.*) 1963, B.M.S. (*ibid.*) 1965.
Anna Stein Kadish, A.B. (*Barnard Coll.*) 1963.
James Brodie Kahn, A.B. 1963.
Richard Francis Kempczinski, A.B. (*Coll. of the Holy Cross*) 1962.
Lary Richard Kupor, S.B. (*Brooklyn Coll.*) 1963.
Lawrence Ross Muroff, A.B. (*Dartmouth Coll.*) 1964, B.M.S. (*ibid.*) 1965.
Derick Peter Pasternak, A.B. 1963.
Barry David Pressman, A.B. (*Dartmouth Coll.*) 1964, B.M.S. (*ibid.*) 1965.
Richard Bernard Reiling, S.B. (*Univ. of Dayton*) 1963.
Arthur Stephen Schantz, S.B. (*Massachusetts Inst. of Technology*) 1963.
Arthur Jay Siegel, A.B. (*Swarthmore Coll.*) 1962.
Thomas Peter Stossel, A.B. (*Princeton Univ.*) 1963.
Paul Lincoln Weiden, A.B. 1963.
John Louis Weinerth, S.B. (*Bucknell Univ.*) 1963.

M.D. magna cum laude for Thesis in a Special Field

Michael Ralph Sherwood, A.B. (*Princeton Univ.*) 1960, B.Litt. (*Univ. of Oxford*) 1965.

M.D. magna cum laude

Richard Kenneth Desser, A.B. (*Univ. of California at Berkeley*) 1963.
Zalman Myron Falchuk, B.M.S. (*Dartmouth Coll.*) 1965.

Laurence Bernard Gardner, s.b. (*Massachusetts Inst. of Technology*) 1963.
Lawrence David Gelb, s.b. (*Univ. of Michigan*) 1963.
Jon Eliot Rohde, a.b. (*Amherst Coll.*) 1963.
Richard Stanley Shulman, a.b. 1963.
Harvey Bruce Simon, a.b. (*Yale Univ.*) 1963.

INTERNSHIPS

CLASS OF 1967

Unless otherwise noted all internships started July 1, 1967 for one year.

Name	*Hospital (and location)*	*Service*
Aaron, Robert S.	Beth Israel Hospital, Boston	Medicine
Adelekan, Adetunji	Cambridge City Hospital, Cambridge	Rotating
Asher, John D.	Boston City Hospital (Harvard Service), Boston	Surgery
Axelrod, Lloyd	Peter Bent Brigham Hospital, Boston	Medicine
Bagley, Charles M., Jr.	Beth Israel Hospital, Boston	Medicine
Ballantine, Thomas V. N.	Boston City Hospital (Harvard Service), Boston	Surgery
Bayard, Edward Q.	Strong Memorial Hospital, Rochester, New York	Medicine
Berc, Kenneth M.	St. Luke's Hospital Center, New York, New York	Medicine
Bernet, F. William	Bronx Municipal Hospital Center, New York, New York	Rotating
Bissell, Dwight M., Jr.	Boston City Hospital (Harvard Service) Boston	Medicine
Bleiberg, Mona L.	Beth Israel Hospital, Boston	Medicine
Bonnar, James M., 3d	Bronx Municipal Hospital Center, New York, New York	Pediatrics
Brauner, Gary J.	Jewish Hospital of St. Louis, St. Louis, Missouri	Medicine
Bucknall, William E.	Johns Hopkins Hospital, Baltimore, Maryland	Pediatrics
Carolan, Robert M.	University Hospitals of Cleveland, Cleveland, Ohio	Medicine
Christensen, William I.	Bernalillo County-Indian Hospital, Albuquerque, New Mexico	Medicine

Name	*Hospital (and location)*	*Service*
Chused, Judith A. F.	Cleveland Metropolitan General Hospital, Cleveland, Ohio	Medicine
Chused, Thomas M.	Cleveland Metropolitan General Hospital, Cleveland, Ohio	Medicine
Conger, S. Beach	Boston City Hospital (Harvard Service), Boston	Medicine
Daniel, Alan	Philadelphia General Hospital, Philadelphia, Pennsylvania (U. of Pa. Division)	Rotating
Desser, Richard K.	Beth Israel Hospital, Boston	Medicine
Diamond, Richard D.	Yale-New Haven Hospital, New Haven, Connecticut	Medicine
Dolin, Raphael	Boston City Hospital (Harvard Service), Boston	Medicine
Donahue, Valentina E. C.	Beth Israel Hospital, Boston	Surgery
Dorman, John M.	Strong Memorial Hospital, Rochester, New York	Medicine
Dorner, Douglas B.	University of California Hospitals, San Francisco, California	Surgery
Dunham, Tom R.	Presbyterian-St. Luke's Hospital, Chicago, Illinois	Medicine
Dushman, Miriam B.	Beth Israel Hospital, Boston	Medicine
Eagleton, Lanie E.	University of Virginia Hospital, Charlottesville, Virginia	Medicine
Ellman, Leonard L.	Massachusetts General Hospital, Boston	Medicine
Erdmann, A. John, 3d	Massachusetts General Hospital, Boston	Surgery
Falchuk, Z. Myron	Peter Bent Brigham Hospital, Boston	Medicine
Finseth, Katherine F. A.	Arrangement pending	
Fischer, John R.	Los Angeles County Harbor General Hospital, Torrance, California	Rotating
Floyd, Richard P.	University of Colorado Medical Center, Denver, Colorado	Medicine

Name	*Hospital (and location)*	*Service*
Funkenstein, H. Harris	Peter Bent Brigham Hospital, Boston	Medicine
Galton, Virginia R.	Bellevue Hospital Center (NYU Service), New York, New York	Pediatrics
Gardner, Laurence B.	Massachusetts General Hospital, Boston	Medicine
Garibaldi, Richard A.	Boston City Hospital (Harvard Service), Boston	Medicine
Gelb, Lawrence D.	Massachusetts General Hospital, Boston	Medicine
Goldsmith, Philip L.	Peter Bent Brigham Hospital, Boston	Medicine
Goldstein, Stanton P.	St. Vincent's Hospital and Medical Center of New York, New York, New York	Surgery
Gordon, James S.	Mount Zion Hospital and Medical Center, San Francisco, California	Rotating
Gorelick, Kenneth P.	Mount Zion Hospital and Medical Center, San Francisco, California	Rotating
Greene, Andrew F.	Medical College of Virginia, Richmond, Virginia	Surgery
Griffin, Walter J.	Presbyterian-St. Luke's Hospital, Chicago, Illinois	Medicine
Gunderson, John G.	Hennepin County General Hospital, Minneapolis, Minnesota	Rotating
Gustafson, James P.	Mount Zion Hospital and Medical Center, San Francisco, California	Rotating
Gutheil, Thomas G.	Bronx Municipal Hospital Center, New York, New York	Pediatrics
Hayes, C. Robert	Peter Bent Brigham Hospital, Boston	Surgical Research
Hirschfeld, David S.	Jewish Hospital of St. Louis, St. Louis, Missouri	Medicine
Holmes, Robert H.	King County Hospital, Seattle, Washington	Rotating
Holt, William S.	Strong Memorial Hospital, Rochester, New York	Rotating

Name	*Hospital (and location)*	*Service*
Horwich, Mark S.	Duke Hospital, Durham, North Carolina	Medicine
Hurwitz, Alfred L.	University of California Hospitals, San Francisco, California	Medicine
Irwin, Robert J.	Massachusetts General Hospital, Boston	Surgery
Jarrett, Fredric	Massachusetts General Hospital, Boston	Surgery
Jencks, Stephen F.	Presbyterian-University of Pennsylvania Medical Center, Philadelphia, Pennsylvania	Medicine
Johnson, Burt P., Jr.	University of California Hospitals, San Francisco, California	Medicine
Johnson, David G.	University of California Hospitals, San Francisco, California	Medicine
Joseph, N. Howard	Rochester General Hospital, Rochester, New York	Medicine
Kadish, Anna S.	Bronx Municipal Hospital Center, New York, New York	Pathology
Kadish, Lawrence J.	Bronx Municipal Hospital Center, New York, New York	Surgery
Kahn, James B.	Beth Israel Hospital, Boston	Medicine
Kahn, Jesse L.	King County Hospital, Seattle, Washington	Rotating
Kempczinski, Richard F.	University Hospitals of Cleveland, Cleveland, Ohio	Surgery
Knopf, Harry L. S.	Duke Hospital, Durham, North Carolina	Medicine
Korshin, Oliver M.	Boston City Hospital (BU Service), Boston	Medicine
Kourides, Ione A.	Jewish Hospital of St. Louis, St. Louis, Missouri	Medicine
Kumpe, David A.	Presbyterian Hospital, New York, New York	Surgery
Kupor, Lary R.	University of Chicago Hospitals and Clinics, Chicago, Illinois	Medicine
Landrigan, Philip J.	Cleveland Metropolitan General Hospital, Cleveland, Ohio	Pediatrics

Name	*Hospital (and location)*	*Service*
Latty, Alexander B.	Duke Hospital, Durham, North Carolina	Medicine
Lazar, Gerald K.	Presbyterian-St. Luke's Hospital, Chicago, Illinois	Medicine
Levine, Stanley B.	Yale-New Haven Hospital, New Haven, Connecticut	Pathology
Lewinnek, George E.	Palo Alto-Stanford Hospital Center, Palo Alto, California	Surgery
Liggio, Raymond	University of Colorado Medical Center, Denver, Colorado	Surgery
Lisanti, Michael J.	Roosevelt Hospital, New York, New York	Surgery
Loewenstein, Matthew S.	Boston City Hospital (Harvard Service), Boston	Medicine
Mabogunje, Oluwatope A.	Bellevue Hospital Center (NYU Service), New York, New York	Surgery
MacDougal, Bruce A.	Massachusetts General Hospital, Boston	Surgery
Mahnke, Mark W.	Philadelphia General Hospital, Philadelphia, Pennsylvania (U. of Pa. Division)	Rotating
Malter, Irá J.	University Hospitals of Cleveland, Cleveland, Ohio	Pediatrics
Mark, Eugene J.	Stanford University Affiliated Hospitals, Palo Alto, California	Medicine
Mastroianni, Nicholas A.	Boston City Hospital (Tufts Service), Boston	Surgery
McAlary, Brian G.	U.S. Naval Hospital, Oakland, California	Rotating
McGowan, John E., Jr.	Boston City Hospital (Harvard Service), Boston	Medicine
McLennan, James E.	University of Minnesota Hospitals, Minneapolis, Minnesota	Surgery
Meissner, William W.	Mount Auburn Hospital, Cambridge	Rotating
Mills, Roberta A.	Cleveland Metropolitan General Hospital, Cleveland, Ohio	Medicine

Name	*Hospital (and location)*	*Service*
Mitch, William E., 2d	Peter Bent Brigham Hospital, Boston	Medicine
Molinoff, Perry B.	University of Chicago Hospitals and Clinics, Chicago, Illinois	Medicine
Mooney, Peter B.	University Hospital, Lexington, Kentucky	Medicine
Morris, Ira A.	Rhode Island Hospital, Providence, Rhode Island	Medicine
Morrison, Peter N.	Medical College of Virginia, Richmond, Virginia	Surgery
Muroff, Lawrence R.	Boston City Hospital (Harvard Service), Boston	Surgery
Murphy, William M.	Medical College of Virginia, Richmond, Virginia	Surgery
Murray, Michael J.	Palo Alto-Stanford Hospital Center, Palo Alto, California	Surgery
Muzzarelli, Uberto T.	Greenwich Hospital, Greenwich, Connecticut	Rotating
Nelson, John P.	St. Luke's Hospital Center, New York, New York	Medicine
Newhouse, Jeffrey H.	Roosevelt Hospital, New York, New York	Surgery
Ogunye, Medrose O.	Cambridge City Hospital, Cambridge	Rotating
O'Neill, Daniel P.	Presbyterian-St. Luke's Hospital, Chicago, Illinois	Medicine
Pasternak, Derick P.	Bronx Municipal Hospital Center, New York, New York	Medicine
Phillips, Lawrence S.	Presbyterian-St. Luke's Hospital, Chicago, Illinois	Medicine
Pitts, W. Reid, Jr.	Massachusetts General Hospital, Boston	Surgery
Pressman, Barry D.	Peter Bent Brigham Hospital, Boston	Surgery
Putnoi, Donald W.	Mount Sinai Hospital, New York, New York	Medicine

Name	*Hospital (and location)*	*Service*
Ram, Meryl H.	Health Center Hospitals of the University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania	Medicine
Reigart, J. Routt, 2d	Children's Hospital Medical Center, Boston	Pediatrics
Reiling, Richard B.	Boston City Hospital (Harvard Service), Boston	Surgery
Rogell, Gerald D.	Presbyterian-St. Luke's Hospital, Chicago, Illinois	Medicine
Rohde, Jon E.	Boston City Hospital (Harvard Service), Boston	Medicine
Roth, Gerald J.	University of Utah Affiliated Hospitals, Salt Lake City, Utah	Medicine
Ruberg, Robert L.	Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania	Surgery
Saxbe, W. Bart, Jr.	Peter Bent Brigham Hospital, Boston	Surgery
Schantz, Arthur S.	Massachusetts General Hospital, Boston	Pathology
Schnitker, Paul C.	Strong Memorial Hospital, Rochester, New York	Medicine
Schoolwerth, Anton C.	Boston City Hospital (Harvard Service), Boston	Medicine
Schuler, John G.	Boston City Hospital (Harvard Service), Boston	Surgery
Segel, William D.	Roosevelt Hospital, New York, New York	Surgery
Sewall, Warren	Mount Auburn Hospital, Cambridge	Rotating
Shapiro, Daniel W.	University of Colorado Medical Center, Denver, Colorado	Pediatrics
Shenkin, Budd N.	University of California Hospitals, San Francisco, California	Pediatrics
Sherwood, Michael R.	Mount Auburn Hospital, Cambridge	Rotating

Name	*Hospital (and location)*	*Service*
Shulman, Richard S.	Boston City Hospital (Harvard Service), Boston	Medicine
Siegel, Arthur J.	Peter Bent Brigham Hospital, Boston	Medicine
Silver, David J.	Medical College of Virginia, Richmond, Virginia	Surgery
Simmons, Michael A.	Johns Hopkins Hospital, Baltimore, Maryland	Pediatrics
Simon, Harvey B.	Massachusetts General Hospital, Boston	Medicine
Singer, Karl L.	University of Colorado Medical Center, Denver, Colorado	Medicine
Sites, Vincent R.	St. Luke's Hospital Center, New York, New York	Medicine
Smith, Donald A.	Duke Hospital, Durham, North Carolina	Medicine
Smith, Douglas G.	Los Angeles County General Hospital, Los Angeles, California	Rotating
Sommer, Alfred	Beth Israel Hospital, Boston	Medicine
Stein, Stephen A.	Yale-New Haven Hospital, New Haven, Connecticut	Surgery
Stossel, Thomas P.	Massachusetts General Hospital, Boston	Medicine
Sugihara, Jared G.	Presbyterian-St. Luke's Hospital, Chicago, Illinois	Medicine
Walker, Pamela P.	Cleveland Metropolitan General Hospital, Cleveland, Ohio	Pediatrics
Weiden, Paul L., Jr.	University Hospitals of Cleveland, Cleveland, Ohio	Medicine
Weikel, Anthony M.	Beth Israel Hospital, Boston	Surgery
Weinerth, John L.	Duke Hospital, Durham, North Carolina	Surgery
Weir, Gordon C.	University Hospitals of Cleveland, Cleveland, Ohio	Medicine
Wesley, John R.	Massachusetts General Hospital, Boston	Surgery

INTERNSHIPS

Name	*Hospital (and location)*	*Service*
White, Eric S.	Roosevelt Hospital, New York, New York	Surgery
Winterer, Joerg C.	Johns Hopkins Community Pediatrics Program, Baltimore, Maryland	Pediatrics
Wise, Jonathan K.	North Carolina Memorial Hospital, Chapel Hill, North Carolina	Rotating
Wolman, Carol S.	Stanford University Affiliated Hospitals, Palo Alto, California	Medicine
Wright, Peter F.	Children's Hospital Medical Center, Boston	Pediatrics
Zaentz, S. Donald	Vanderbilt University Hospital, Nashville, Tennessee	Medicine

Where the name of the state is omitted, the state is Massachusetts.

MEDICAL SCHOOL STUDENTS
(as of registration September 1967)

Fourth Year Class (1968)

Adair, Richard Franklin, A.B. 1964. *St. Paul, Minn.*

*Adams, Patricia Elaine Cronin, A.B. (*Bennington Coll.*) 1964, B.M.S. (*Dartmouth Coll.*) 1966. [Dartmouth Medical School]. *Glen Rock, N.J.*

Anderson, Einar Wulfsberg, A.B. (*Stanford Univ.*) 1963. *Arcadia, Calif.*

Arradondo, John El Roy, A.B. (*Oklahoma City Univ.*) 1963. *Altus, Okla.*

*Ascher, Michael Stoskopf, A.B. (*Univ. of Colorado*) 1964, B.M.S. (*Dartmouth Coll.*) 1966. [Dartmouth Medical School]. *Freeport, Ill.*

*Aufranc, St. George Tucker (*Univ. of Virginia*). [Univ. of Virginia School of Medicine]. *Wellesley Hills*

*Benz, Ronald Ralph, A.B. (*Dartmouth Coll.*) 1964, B.M.S. (*ibid.*) 1966. [Dartmouth Medical School]. *Orchard Park, N.Y.*

*Boerstling, Herbert, A.B. (*Dartmouth Coll.*) 1965. B.M.S. (*ibid.*) 1966. [Dartmouth Medical School]. *Seoul, Korea*

*Borden, Spencer, 4th, A.B. 1963, B.M.S. (*Dartmouth Coll.*) 1966, [Dartmouth Medical School]. *Concord*

Brandt, John Henry, A.B. (*Yale Univ.*) 1962. *Lakewood, Ohio*

Breslow, Jan Leslie, A.B. (*Columbia Univ.*) 1963, A.M. (*ibid.*) 1964. *Brooklyn, N.Y.*

Brier, Arnold Michael, A.B. (*Univ. of Chicago*) 1964. *Dayton, Ohio*

Brownstein, Carlton Stewart, A.B. (*Williams Coll.*) 1964. *Baldwin, N.Y.*

*Bruggeman, Lewis LeRoy, A.B. (*Dartmouth Coll.*) 1963, B.M.S. (*ibid.*) 1965. [Dartmouth Medical School]. *Suffern, N.Y.*

‡ Admitted on the basis of three years' college work.
° Transferred to the second year class.
* Transferred to the third year class.
† Degree conferred by Harvard University.
+ Leave of absence first semester.
N.B. Where the college name is omitted, the college is Harvard; where the state is omitted, the state is Massachusetts.

*Bullock, John David, A.B. (*Dartmouth Coll.*) 1965, B.M.S. (*ibid.*) 1966. [Dartmouth Medical School]. *Cincinnati, Ohio*

Burdick, James Frederick, S.B. (*Yale Univ.*) 1964. *Alfred, N.Y.*

*Carpenter, Herschel Andrea, A.B. (*Univ. of North Dakota*) 1965, S.B. IN MED. (*ibid.*) 1966. [Univ. of North Dakota School of Medicine]. *Lakewood, Calif.*

*Cebrik, Michael Melvin, A.B. (*Dartmouth Coll.*) 1964, B.M.S. (*ibid.*) 1966. [Dartmouth Medical School]. *Nutley, N.J.*

*Chagnon, Suzanne Esther, A.B. (*Univ. of Vermont*) 1964, B.M.S. (*Dartmouth Coll.*) 1966. [Dartmouth Medical School]. *Nashua, N.H.*

Chen, Lincoln Chih-ho, A.B. (*Princeton Univ.*) 1964. *New York, N.Y.*

+Chesebro, Bruce Wilcox, S.B. (*California Inst. of Technology*) 1963. *Los Angeles, Calif.*

Chivian, Eric Seth, A.B. 1964. *Millburn, N.J.*

*Clough, Wendy Glasgow, A.B. †(*Radcliffe Coll.*) 1964, B.M.S. (*Dartmouth Coll.*) 1966. [Dartmouth Medical School]. *Chadds Ford, Pa.*

Cohen, Michael Victor, A.B. 1964. *New York, N.Y.*

Colvin, Robert Barnes, S.B. (*Massachusetts Inst. of Technology*) 1964. *St. Charles, Mo.*

*Czaja, Albert Joseph, Jr., A.B. (*Dartmouth Coll.*) 1965, B.M.S. (*ibid*) 1966. [Dartmouth Medical School]. *Narberth, Pa.*

Dolgoff, Robert Kenneth, A.B. 1964. *Topeka, Kans.*

*Donaldson, Sarah Susan, S.B. (*Univ. of Oregon School of Nursing*) 1961, B.M.S. (*Dartmouth Coll.*) 1966. [Dartmouth Medical School]. *Portland, Oregon*

Dow, Lois Jean Weyman, A.B. (*Cornell Univ.*) 1964. *Cincinnati, Ohio*

Droller, Michael Jack, A.B. 1964. *Brooklyn, N.Y.*

*Dudley, William Earl, 2d, A.B. (*Dartmouth Coll.*) 1965, B.M.S. (*ibid.*) 1966. [Dartmouth Medical School]. *Arlington, Va.*

Ellsworth, George Avery, A.B. (*Kansas State Univ.*) 1965. *Manhattan, Kans.*

*Ellsworth, Robert Martin, A.B. (*Dartmouth Coll.*) 1965, B.M.S. (*ibid.*) 1966. [Dartmouth Medical School]. *Winsted, Conn.*

Fielding, Jonathan Evan, A.B. (*Williams Coll.*) 1964. *Mamaroneck, N.Y.*

Fisher, Morris Alan, A.B. (*Yale Univ.*) 1961. *New York, N.Y.*

Frederick, Robert Arthur, S.B. (*Georgetown Univ.*) 1964. *Wood Ridge, N.J.*
Funkenstein, Daniel Louis, A.B. (*Princeton Univ.*) 1964. *Boston*
Furlong, Maurice Bennett, Jr., A.B. (*Fordham Univ.*) 1964. *Jamestown, N.Y.*
Gail, Mitchell Henry, A.B. 1962. *Lexington, Ky.*
°Garrison, Henry Byron, S.B. (*Yale Univ.*) 1962, B.A. (*Univ. of Oxford*) 1965. [Oxford Univ. Medical School]. *Coral Gables, Fla.*
Goldberg, Deborah Lois Baron, A.B. †(*Radcliffe Coll.*) 1964. *Brookline*
Goldberg, George Ansbach, A.B. 1963. *Mount Vernon, N.Y.*
Goldberg, Michael Ellis, A.B. 1963. *Eastchester, N.Y.*
Goldenson, Ronald Hugh, A.B. (*Princeton Univ.*) 1964. *Harrison, N.Y.*
Gradman, Wayne Stuart, A.B. (*Univ. of Chicago*) 1964. *Skokie, Ill.*
Grana, William Anthony, A.B. 1964. *St. Louis, Mo.*
Greenacre, Judith Kathleen Fisher, A.B. †(*Radcliffe Coll.*) 1964. *New York, N.Y.*
*Gregory, Garth Larsen, A.B. (*Dartmouth Coll.*) 1964, B.M.S. (*ibid.*) 1966. [Dartmouth Medical School]. *Tacoma, Wash.*
Guarino, Arthur Victor, A.B. (*Coll. of the Holy Cross*) 1962. *Brooklyn, N.Y.*
Guss, Stephen Bernard, A.B. (*Yale Univ.*) 1964. *Omaha, Nebr.*
Hadler, Nortin Marvin, A.B. (*Yale Univ.*) 1964. *Eastchester, N.Y.*
*Harris, David Thorme, A.B. (*Dartmouth Coll.*) 1964. B.M.S. (*ibid.*) 1966. [Dartmouth Medical School]. *Stratford, Conn.*
Hawk, Alan Brainard, A.B. (*Amherst Coll.*) 1964. *Pittsburgh, Pa.*
Hejinian, John Paull, A.B. 1962. *New York, N.Y.*
Herman, Judith Lewis, A.B.† (*Radcliffe Coll.*) 1964. *New York, N.Y.*
*Hight, Donald Wadsworth, A.B. (*Dartmouth Coll.*) 1964, B.M.S. (*ibid.*) 1966. [Dartmouth Medical School]. *Leicester*
Hochschuler, Stephen Howard, A.B. (*Columbia Univ.*) 1964. *Forest Hills, N.Y.*
Holloran, James Francis, Jr., A.B. (*Coll. of the Holy Cross*) 1964. *Washington, D.C.*
Hurwitz, Barbara Mara, A.B. (*Bryn Mawr Coll.*) 1964. *New Rochelle, N.Y.*
Jakobiec, Frederick Albert, A.B. 1964. *Manchester, N.H.*
Kahn, Henry Slater, A.B. 1964. *Poughkeepsie, N.Y.*

*Kaiser, John Stanton, A.B. (*Carleton Coll.*) 1964, B.M.S. (*Dartmouth Coll.*) 1966. [Dartmouth Medical School]. *Oak Park, Ill.*
*Kanaaneh, Hatim Abdul-Kader, A.B. (*Univ. of Hawaii*) 1964. [Univ. of South Dakota School of Medicine]. *Arabi Village, Israel*
*Kattwinkel, John, S.B. (*Rensselaer Polytechnic Inst.*) 1964, B.M.S. (*Dartmouth Coll.*) 1966. [Dartmouth Medical School]. *Eastham*
Kelley, Jonathan Merrick, A.B. (*Princeton Univ.*) 1961. *West Newton*
°King, Robert Alan, A.B. (*Cornell Univ.*) 1963, B.A. (*Univ. of Oxford*) 1965. [Oxford Univ. Medical School]. *Oak Park, Ill.*
Kluft, Richard Philip, A.B. (*Princeton Univ.*) 1964. *Perth Amboy, N.J.*
Kolonel, Laurence Norman, A.B. (*Williams Coll.*) 1964. *Norwood*
Krauss, Ronald Maxwell, A.B. 1964. *Buffalo, N.Y.*
LaCombe, Michael Arthur, A.B. (*Univ. of Rochester*) 1964. *Ogdensburg, N.Y.*
Levine, David Norman, A.B. (*Yeshiva Univ.*) 1963. *Los Angeles, Calif.*
Levine, Frederick Hugh, A.B. (*Columbia Univ.*) 1964. *Queens Village, N.Y.*
Levy, David Edward, A.B. 1963. *Verona, N.J.*
*Livingston, Jack George, A.B. (*Dartmouth Coll.*) 1965, B.M.S. (*ibid.*) 1966. [Dartmouth Medical School]. *Baxter Springs, Kans.*
Lobis, Robert Alan, A.B. (*Univ. of Pennsylvania*) 1964. *Philadelphia, Pa.*
Looker, Andrew Noah, A.B. 1964. *New York, N.Y.*
Lurie, Melvyn Louis, A.B. (*Johns Hopkins Univ.*) 1963. *Baltimore, Md.*
McBean, Alexander Marshall, A.B. (*Yale Univ.*) 1964. *Chatham, N.J.*
McNutt, Edith Gilkey Richards, A.B. (*Wellesley Coll.*) 1964. *St. Louis, Mo.*
Marks, Richard Arlyn, A.B. 1965. *Urbana, Ill.*
Marshall, Robert Alan (*Oberlin Coll.*) *Dayton, Ohio*
*Miller, Richard Jay, A.B. (*Dartmouth Coll.*) 1964, B.M.S. (*ibid.*) 1966. [Dartmouth Medical School]. *West Hartford, Conn.*
Morain, William Douglas, A.B. (*Grinnell Coll.*) 1964. *Jefferson, Iowa*
*Mosher, Deane Fremont, Jr., A.B. (*Dartmouth Coll.*) 1965, B.M.S. (*ibid.*) 1966. [Dartmouth Medical School]. *Newport, Vt.*
*Munro, Alan Bruce, A.B. (*Dartmouth Coll.*) 1965, B.M.S. (*ibid.*) 1966. [Dartmouth Medical School]. *Freeport, N.Y.*
Nafziger, Jacob Calvin, A.B. (*Lehigh Univ.*) 1963. *Lancaster, Pa.*
Oakes, David Duane, A.B. 1963. *LaPorte, Ind.*

Oakes, Donna Gottdiener, A.B. (*Wellesley Coll.*) 1963. *Poughkeepsie, N.Y.*
Omachi, Rodney Seichi, A.B. (*Stanford Univ.*) 1964. *Stockton, Calif.*
Onion, Daniel Kent, A.B. 1964. *Castleton, Vt.*
Oredugba, Olumuyiwa, A.B. (*DePauw Univ.*) 1964. *Lagos, Nigeria*
Orkin, Fredrick Kent, A.B. (*Bowdoin Coll.*) 1964. *New York, N.Y.*
*Parker, George Warren, A.B. (*Dartmouth Coll.*) 1963, B.M.S. (*ibid.*) 1964. [Dartmouth Medical School]. *Newton*
Patterson, Laird Gunn, A.B. (*Univ. of Kansas*) 1963. *Larned, Kans.*
Pauker, Stephen Gary, A.B. 1964. *Kingston, N.Y.*
Pearle, David Lee, A.B. (*Amherst Coll.*) 1964. *Dallas, Texas*
Peppercorn, Mark Allan, A.B. 1964. *Columbus, Ohio*
Perkins, David George, A.B. 1963. *Lynnfield*
Pincus, Stephanie Faith Hoyer, A.B. (*Reed Coll.*) 1964. *Beverly Hills, Calif.*
Pollard, Thomas Dean, A.B. (*Pomona Coll.*) 1964. *San Marino, Calif.*
Posner, Michael Kagan, A.B. (*Yale Univ.*) 1964. *Longmeadow*
Prager, Kenneth Michael, A.B. (*Columbia Univ.*) 1964. *Brooklyn, N.Y.*
Reale, Vincent Francis, A.B. (*Princeton Univ.*) 1963. *Manville, N.J.*
Reed, William Piper, Jr., A.B. 1964. *Reading*
*Reilly, Frank Eugene, A.B. (*Coll. of the Holy Cross*) 1960, A.M. (*Univ. of Wisconsin*) 1961, B.M.S. (*Dartmouth Coll.*) 1965. [Dartmouth Medical School]. *New York, N.Y.*
*Reising, Paul Andreas, Jr., A.B. (*Coll. of the Holy Cross*) 1964, B.M.S. (*Dartmouth Coll.*) 1966. [Dartmouth Medical School]. *New Orleans, La.*
Rieder, Ronald Olrich, A.B. 1964. *Trenton, Mich.*
*Rini, James Martin, A.B. (*Dartmouth Coll.*) 1964, B.M.S. (*ibid.*) 1966. [Dartmouth Medical School]. *Beachwood, Ohio*
Robertson, Howard Thomas, 2d, A.B. (*Colgate Univ.*) 1964. *Denver, Colo.*
Rosenberg, Gary Lawrence, A.B. 1964. *University Heights, Ohio*
Rutherford, Robert Carver, A.B. (*Univ. of Washington*) 1964. *Seattle, Wash.*
Sachs, David Howard, A.B. 1963. *Yonkers, N.Y.*
*Salisbury, Kent William, A.B. (*Dartmouth Coll.*) 1965, B.M.S. (*ibid.*) 1966. [Dartmouth Medical School]. *Roslyn Heights, N.Y.*
Schneider, Bruce Solomon, A.B. 1964. *Teaneck, N.J.*

Seward, Paul North, A.B. (*Stanford Univ.*) 1964. *Washington, D.C.*

*Shapiro, Edward Robert, A.B. (*Yale Univ.*) 1962. [Stanford Univ. School of Medicine]. *Brookline*

*Sherman, Stephen Arthur, A.B. (*Dartmouth Coll.*) 1964. B.M.S. (*ibid.*) 1966. [Dartmouth Medical School]. *Stamford, Conn.*

Sloane, Robert Woodard, Jr., S.B. (*Univ. of Michigan*) 1963. *Wauwatosa, Wis.*

‡Soper, Michael Ray (*Harvard Coll.*) *Independence, Mo.*

Sos, Thomas Andrew, A.B. (*Queens Coll. of The City Univ. of New York*) 1964. *New York, N.Y.*

Southmayd, William Webster, A.B. 1964. *Newton Centre*

Starr, Stuart Eliot, A.B. (*Pomona Coll.*) 1963. *Los Angeles, Calif.*

Steinman, Ralph Marvin, B.SC. (*McGill Univ.*) 1963. *Sherbrooke, P.Q., Canada*

Sun, Edward Ralph, A.B. 1963. *Harrisburg, Pa.*

*Tegtmeier, Ronald Eugene, A.B. (*Dartmouth Coll.*) 1965, B.M.S. (*ibid.*) 1966. [Dartmouth Medical School]. *Omaha, Nebr.*

Templeton, John Marks, Jr., A.B. (*Yale Univ.*) 1962. *Englewood, Calif.*

Tolkoff, Nina Ellen, A.B. (*Cornell Univ.*) 1964. *Brooklyn, N.Y.*

Trobe, Jonathan Daniel, A.B. 1964. *New York, N.Y.*

*Trowbridge, Frederick Lindsley, A.B. (*Princeton Univ.*) 1964, B.M.S. (*Dartmouth Coll.*) 1966. [Dartmouth Medical School]. *Willoughby, Ohio*

*Vaughan, Milton Clay, A.B. (*Dartmouth Coll.*) 1964. B.M.S. (*ibid.*) 1966. [Dartmouth Medical School]. *Raleigh, N.C.*

*Vore, Jon Michael Brian, A.B. (*Colby Coll.*) 1964, B.M.S. (*Dartmouth Coll.*) 1966. [Dartmouth Medical School]. *Nashua, N.H.*

Ward, Samuel Porter, A.B. (*Amherst Coll.*) 1959. *Lake Bluff, Ill.*

Weil, Andrew Thomas, A.B. 1964. *Philadelphia, Pa.*

Welch, John Paton, A.B. 1964. *Belmont*

*Wilson, Samuel Hardy, Jr., A.B. (*Univ. of Denver*) 1961. [Univ. of Colorado School of Medicine]. *Ferris, Texas*

Wittes, Robert Elliot, A.B. 1964. *Woonsocket, R.I.*

+ *Wolf, Gerald Lee, S.B. IN MED. (*Univ. of Nebraska*) 1962, S.M. (*ibid.*) 1964, PH.D. (*ibid.*) 1965. [Univ. of Nebraska Coll. of Medicine]. *Sidney, Nebraska*

Yanowitz, Ira Sar, A.B. 1964. *Bronx, N.Y.*

Youngerman, Joseph Kahn, A.B. (*Yale Univ.*) 1964. *Champaign, Ill.*

*Zaia, John Anthony, A.B. (*Coll. of the Holy Cross*) 1964, B.M.S. (*Dartmouth Coll.*) 1966. [Dartmouth Medical School]. *Oneida, N.Y.*

Zawadsky, Peter Michael, A.B. (*Rutgers Univ.*) 1964. *Spotswood, N.J.*

THIRD YEAR CLASS (1969)

Ainslie, George William, Jr., A.B. (*Yale Univ.*) 1965. *Binghamton, N.Y.*

Allen, Jeffrey Charles, A.B. (*Oberlin Coll.*) 1965. *Livingston, N.J.*

Alpert, Joseph Stephen, A.B. (*Yale Univ.*) 1963. *New Haven, Conn.*

*Altman, Leonard Charles, A.B. (*Univ. of Pennsylvania*) 1965. [Harvard School of Dental Medicine]. *Flushing, N.Y.*

Arling, Bryan Jeremy, A.B. (*Univ. of Minnesota*) 1965. *Minneapolis, Minn.*

*Bail, Richard Nelson, Jr., A.B. (*Bowdoin Coll.*) 1964, B.M.S. (*Dartmouth Coll.*) 1967. [Dartmouth Medical School]. *Whitman*

Bartrum, Royal Jay, Jr., A.B. (*Carleton Coll.*) 1965. *Normal, Ill.*

Bast, Robert Clinton, Jr., A.B. (*Wesleyan Univ.*) 1965. *Arlington, Va.*

Bean, Margaret Harvey, A.B.† (*Radcliffe Coll.*) 1965. *Iowa City, Iowa*

Bennett, William Ira, A.B. 1962. *Tacoma, Wash.*

*Berger, Phil Alan, A.B. (*Dartmouth Coll.*) 1965, B.M.S. (*ibid.*) 1967. [Dartmouth Medical School]. *Montclair, N.J.*

Bettman, Thomas Coulter, A.B. (*Dartmouth Coll.*) 1965. *Cincinnati, Ohio*

Bialer, Rishon Menahem, A.B. (*Brandeis Univ.*) 1964. *Paterson, N.J.*

Bissell, John Albert, A.B. (*Stanford Univ.*) 1964. *Saratoga, Calif.*

Bobroff, Lewis Martin (*Brooklyn Coll. of The City Univ. of New York*). *Brooklyn, N.Y.*

Boehm, Sharon Lynne, S.B. (*Univ. of Wisconsin*) 1965. *Itasca, Ill.*

*Botstein, Paula Moselle Buckholts, A.B. †(*Radcliffe Coll.*) 1965. [Wayne State Univ. School of Medicine]. *Ypsilanti, Mich.*

‡ Admitted on the basis of three years' college work.
° Transferred to the second year class.
* Transferred to the third year class,
† Degree conferred by Harvard University.
+ Leave of absence first semester.
N.B. Where the college name is omitted, the college is Harvard; where the state is omitted, the state is Massachusetts.

Boylston, Arthur William, 2d, A.B. (*Yale Univ.*) 1964. *Portland, Oregon*

Braden, William, 3d, A.B. 1965. *New York, N.Y.*

Brandling-Bennett, Anthony David, A.B. 1964. *Los Angeles, Calif.*

*Bratberg, Jerald Jerome, A.B. (*Augustana Coll.*) 1965. [Univ. of South Dakota School of Medicine]. *Irene, S.Dak.*

*Brooks, John Graham, 3d, A.B. 1964, B.M.S. (*Dartmouth Coll.*) 1966. [Dartmouth Medical School]. *Weston*

Brooks, Robert William, A.B. (*Williams Coll.*) 1965. *Paterson, N.J.*

Burney, Richard Edward, Jr., A.B. 1965. *Cleveland, Ohio*

*Bush, David Charles, A.B. (*Dartmouth Coll.*) 1965, B.M.S. (*ibid.*) 1967. [Dartmouth Medical School]. *Washingtonville, Pa.*

Burr, Barbara Bendel Hertz, A.B. (*Swarthmore Coll.*) 1965. *New York, N.Y.*

Burr, Winthrop Ames, A.B. 1965. *Christiansted, St. Croix, V.I.*

Cannon, Walter Bradford, A.B. 1963. *Lincoln*

*Cecere, MaryAnn, A.B. †(*Radcliffe Coll.*) 1965, B.M.S. (*Dartmouth Coll.*) 1967. [Dartmouth Medical School]. *Revere*

Cello, John Patrick, A.B. (*Providence Coll.*) 1965. *Cambria Heights, N.Y.*

Chang, Henry, S.B. (*Yale Univ.*) 1965. *New York, N.Y.*

Chessen, Douglas Howell, A.B. (*Amherst Coll.*) 1965. *Denver, Colo.*

*Chiappa, Keith Henry, A.B. 1965. [Oxford Univ. Medical School]. *Spanish Point, Bermuda*

Cloos, David Wilmot, A.B. (*Williams Coll.*) 1965. *Richmond Hill, N.Y.*

Cohen, Benjamin Emanuel, A.B. (*Columbia Univ.*) 1965. *Macon, Ga.*

*Corkey, Richard Francis, Jr., A.B. (*Dartmouth Coll.*) 1965, B.M.S. (*ibid.*) 1967. [Dartmouth Medical School]. *Salem, Conn.*

Crane, Martin, A.B. (*Princeton Univ.*) 1965. *Williston Park, N.Y.*

Crichton, John Michael, A.B. 1964. *New Canaan, Conn.*

Dashe, Charles Kay, A.B. (*Univ. of Chicago*) 1965. *Gary, Ind.*

*DeCesare, Ronald Edward (*Johns Hopkins Univ.*), S.B. IN MED. (*Univ. of North Dakota*) 1967. [Univ. of North Dakota School of Medicine]. *Fargo, N.Dak.*

*DeFronzo, Ralph Anthony, Jr., S.B. (*Yale Univ.*) 1964, B.M.S. (*Dartmouth Coll.*) 1967. [Dartmouth Medical School]. *Saugus*

*Donn, Richard, S.B. IN CHEM. (*Univ. of Vermont*) 1965, B.M.S. (*Dartmouth Coll.*) 1967. [Dartmouth Medical School]. *New York, N.Y.*

Dos Reis, Leslie Jose, A.B. (*Williams Coll.*) 1965. *Rye, N.Y.*

Duvinsky, Joel, S.B. (*City Coll. of The City Univ. of New York*) 1965. *New York, N.Y.*

*Everson, Lloyd Kermit, Jr., S.B. (*Univ. of North Dakota*) 1965, S.B. IN MED. (*ibid.*) 1967. [Univ. of North Dakota School of Medicine]. *Grafton, N.Dak.*

*Fee, Henry Jordan, A.B. (*State Univ. of Iowa*) 1965. [Univ. of South Dakota School of Medicine]. *Frankfort, S.Dak.*

Feibel, Robert Marks, A.B. (*Johns Hopkins Univ.*) 1965. *Cincinnati, Ohio*

*Feldman, Joel Joseph, A.B. (*Dartmouth Coll.*) 1965, B.M.S. (*ibid.*) 1967. [Dartmouth Medical School]. *Great Neck, N.Y.*

Fernbach, Stephen Alton, A.B. (*Amherst Coll.*) 1965. *New York, N.Y.*

Frank, Gerald Warren, A.B. 1965. *Winthrop*

Fraser, David William, A.B. (*Haverford Coll.*) 1965. *George School, Pa.*

Freed, Curt Richard, A.B. 1965. *Euclid, Ohio*

Freeman, David Lewis, A.B. 1964. *Sherborn*

*Freeman, John Robert, A.B. (*Dartmouth Coll.*) 1966, B.M.S. (*ibid.*) 1967. [Dartmouth Medical School]. *Kettering, Ohio*

Freeman, Thomas Stanley, A.B. 1964. *Glencoe, Ill.*

Friedman, Paul Aaron, A.B. (*Princeton Univ.*) 1964. *Baltimore, Md.*

Garrison, Penelope Knapp, A.B. †(*Radcliffe Coll.*) 1963. *Cambridge*

Gerber, Richard Borisow, A.B. (*Amherst Coll.*) 1965. *Washington, D.C.*

Gimbrone, Michael Anthony, Jr., A.B. (*Cornell Univ.*) 1965. *Buffalo, N.Y.*

Goldmann, Donald Alan, A.B. 1964. *Trenton, N.J.*

Gordon, Jerold Stanley, S.B. (*Antioch Coll.*) 1965. *Pittsburgh, Pa.*

Graybeal, Robert Thomas, S.B. (*Duke Univ.*) 1965. *Marion, Va.*

Grillo, Peter James, A.B. (*Yale Univ.*) 1965. *Andover*

*Gutowski, Edward Paul, S.B. (*Univ. of North Dakota*) 1965, S.B. IN MED. (*ibid.*) 1967. [Univ. of North Dakota School of Medicine]. *Wishek, N.Dak.*

Guyton, David Lee, S.B. (*Univ. of Mississippi*) 1965. *Jackson, Miss.*

Hall, Stephen Vincent, A.B. 1965. *Champaign, Ill.*

Hallett, Mark, A.B. 1965. *Merion, Pa.*

*Harken, Laurel Dale Sillag, S.B. (*Denison Univ.*) 1965. [Western Reserve University School of Medicine]. *Cleveland Heights, Ohio*

Harper, Gordon Peacock, A.B. 1964. *Rochester, N.Y.*

Harrison, Michael Richard, A.B. (*Yale Univ.*) 1965. *Vancouver, Wash.*

*Henderson, James Roger, A.B. (*Bowdoin Coll.*) 1964, B.M.S. (*Dartmouth Coll.*) 1967. [Dartmouth Medical School]. *Xenia, Ohio*

Herbert, Marshall Linton, A.B. (*Wesleyan Univ.*) 1964. *Gainesville, Fla.*

Hertzman, Marc, A.B. 1965. *Cincinnati, Ohio*

Heuser, John Edward, A.B. 1964. *Tulsa, Okla.*

*Hinkley, William Elliott, A.B. (*Bowdoin Coll.*) 1965, B.M.S. (*Dartmouth Coll.*) 1967. [Dartmouth Medical School]. *Groveton, N.H.*

Hodes, David Samuel, A.B. (*Princeton Univ.*) 1963, B.A. (*Oxford Univ.*) 1965. *Manhasset, N.Y.*

Hodes, Richard Joel, A.B. (*Yale Univ.*) 1965. *Wantagh, N.Y.*

Hoffer, Edward Peter, S.B. (*Massachusetts Inst. of Technology*) 1965. *Montreal, P.Q., Canada*

*Horner, Richard Jon, A.B. (*Dartmouth Coll.*) 1966, B.M.S. (*ibid.*) 1967. [Dartmouth Medical School]. *Marlton, N.J.*

Howard, Terry Thomas, A.B. (*Columbia Univ.*) 1965. *Rutherford, N.J.*

Hyde, Thomas Prentice, S.B. (*Yale Univ.*) 1965. *Evanston, Ill.*

Jablecki, Charles Kasmir, A.B. 1965. *Rumford, R.I.*

Janeway, Charles Alderson, Jr., A.B. 1963. *Weston*

°Kahan, Morton Gerald, A.B. (*Princeton Univ.*) 1964. [Oxford Univ. Medical School]. *West Hartford, Conn.*

*Kahn, Felicia Hance, A.B. (*Univ. of California, Berkeley*) 1965. [State Univ. of New York Downstate Medical Center Coll. of Medicine]. *Palo Alto, Calif.*

*Kaiser, Richard Alan, A.B. (*Dartmouth Coll.*) 1966, B.M.S. (*ibid.*) 1967. [Dartmouth Medical School]. *Newburgh, N.Y.*

Kanner, Steven Russell, A.B. 1965. *Massapequa Park, N.Y.*

*Kark, John Alexander, B.A. (*Oxford Univ.*) 1966. [Oxford Univ. Medical School]. *Oak Park, Ill.*

Kaslow, Richard Alan, A.B. (*Yale Univ.*) 1965. *Omaha, Nebr.*

Kolb, Jonathan Edward, A.B. 1965. *Providence, R.I.*

*Kramer, Robert Jeffrey, (*Union Coll.*), A.B. (*Stanford Univ.*) 1967. [Stanford Univ. School of Medicine]. *Mineola, N.Y.*

Krogstad, Donald John, A.B. (*Bowdoin Coll.*) 1965. *New Hyde Park, N.Y.*

*Kroll, Stephen Samuel, A.B. (*Dartmouth Coll.*) 1966, B.M.S. (*ibid.*) 1967. [Dartmouth Medical School]. *Livingston, N.J.*

*Lamar, Judy Ann, A.B. †(*Radcliffe Coll.*) 1963, B.M.S. (*Dartmouth Coll.*) 1967. [Dartmouth Medical School]. *Belmont*

Lange, Roger Frederick, A.B. 1965. *Evanston, Ill.*

Langsdorf, David Stanton, Jr., A.B. (*Stanford Univ.*) 1963. *San Mateo, Calif.*

*Lawrence, John Mark, A.B. (*Stanford Univ.*) 1965. [Univ. of South Dakota School of Medicine]. *Orinda, Calif.*

Lemkin, Stephen Richard, A.B. 1965. *Lowell*

Leonardi, Howard Kevin, A.B. (*Yale Univ.*) 1965. *Swampscott*

Levine, Judith Ann, A.B. (*Swarthmore Coll.*) 1965. *New York, N.Y.*

Lewis, Brian Joel, A.B. (*Rice Univ.*) 1965. *Little Rock, Ark.*

Lewis, Randall Jeffrey, A.B. (*Yale Univ.*) 1965. *Taunton*

*Liang, Matthew Heng, A.B. (*Johns Hopkins Univ.*) 1965, B.M.S. (*Dartmouth Coll.*) 1967. [Dartmouth Medical School]. *Baltimore, Md.*

Liteplo, Merrill Gerald, S.B. (*Manhattan Coll.*) 1965. *Brooklyn, N.Y.*

*Little, John William, 3d, A.B. (*Dartmouth Coll.*) 1966, B.M.S. (*ibid.*) 1967. [Dartmouth Medical School]. *Decatur, Ill.*

*Livingston, Philip Ordway, A.B. (*Princeton Univ.*) 1965, B.M.S. (*Dartmouth Coll.*) 1967. [Dartmouth Medical School]. *New Canaan, Conn.*

Long, Michael Carroll, S.B. (*Massachusetts Inst. of Technology*) 1965. *Salisbury, Md.*

*Macdonald, John Stephen, A.B. (*Dartmouth Coll.*) 1965, B.M.S. (*ibid.*) 1967. [Dartmouth Medical School]. *Bronxville, N.Y.*

McLeod, Bruce Cameron, A.B. (*Univ. of Texas*) 1965. *Arkansas City, Kans.*

Marinoff, Gerald Paul, A.B. (*Columbia Univ.*) 1965. *Brooklyn, N.Y.*

*Markworth, James Warren, A.B. (*Dartmouth Coll.*) 1965, B.M.S. (*ibid.*) 1967. [Dartmouth Medical School]. *Fairview Park, Ohio*

Martin, David Hubert, A.B. (*Univ. of Kansas*) 1965. *Coffeyville, Kans.*

Mattingly, Patrick Hayne, A.B. (*Coll. of the Holy Cross*) 1964. *Bethesda, Md.*

Mayer, Robert James, A.B. (*Williams Coll.*) 1965. *New Hyde Park, N.Y.*

Mieth, Werner Christian Joseph, A.B. 1965. *Union, N.J.*

*Miles, Richard Royce, S.B. (*Univ. of Nebraska*) 1964, M.S., (*ibid.*) 1967. [Univ. of Nebraska Coll. of Medicine]. *Lincoln, Nebr.*

Miller, John Bruce, A.B. 1965. *Maywood, Ill.*

Mitchell, Beverly Shriver, A.B. (*Smith Coll.*) 1965. *Auburndale*

Mitchell, Michael Ernst, A.B. (*Princeton Univ.*) 1965. *Lincoln Park, N.J.*

*Mitchell, Tamara Marie Thabes, A.B. (*Univ. of Chicago*) 1965. [Univ. of Chicago School of Medicine]. *Brainerd, Minn.*

*Montgomery, Stephen Lawrence, S.B. (*Boston Univ.*) 1965, B.M.S. (*Dartmouth Coll.*) 1967. [Dartmouth Medical School]. *Harrisburg, Pa.*

Murphy, Frank Lloyd, Jr., A.B. 1965. *Webster Groves, Mo.*

*Nisula, Bruce Carl, A.B. (*Dartmouth Coll.*) 1966, B.M.S. (*ibid.*) 1967. [Dartmouth Medical School]. *Simsbury, Conn.*

*Noe, Joel Mark, A.B. 1965, B.M.S. (*Dartmouth Coll.*) 1967. [Dartmouth Medical School]. *Marblehead*

*Osborne, Barbara Elliot Mallinckrodt, A.B. †(*Radcliffe Coll.*) 1967, B.M.S. (*Dartmouth Coll.*) 1967. [Dartmouth Medical School]. *St. Louis, Mo.*

*Osborne, David Paul, Jr., A.B. (*Dartmouth Coll.*) 1966, B.M.S. (*ibid.*) 1967. [Dartmouth Medical School]. *Bethesda, Md.*

Oyer, David Smith, S.B. (*Univ. of Rochester*) 1964. *Rochester, N.Y.*

*Passero, Michael Anthony, A.B. (*Dartmouth Coll.*) 1966, B.M.S. (*ibid.*) 1967. [Dartmouth Medical School]. *Newark, N.J.*

Peterson, Douglas Bergen, A.B. (*Dartmouth Coll.*) 1965. *Aurora, Ill.*

Petrucelli, Rocco Joseph, 2d, A.B. (*Yale Univ.*) 1965. *Meriden, Conn.*

Quint, Alan Steven, A.B. 1965. *Woodbridge, N.J.*

Ré, Richard Noel, A.B. 1965. *Palisade, N.J.*

Redfern, Anne Brennan, A.B.† (*Radcliffe Coll.*) 1965. *Cincinnati, Ohio*

*Reece, Richard William, A.B. (*Princeton Univ.*) 1965, B.M.S. (*Dartmouth Coll.*) 1967. [Dartmouth Medical School]. *Troy, N.Y.*

*Reese, Richard Ellsworth, A.B. (*Dartmouth Coll.*) 1965, B.M.S. (*ibid.*) 1967. [Dartmouth Medical School]. *Gloversville, N.Y.*

Rein, Michael Frank, A.B. 1965. *New York, N.Y.*

Richards, Keith Chirgwin, A.B. (*Yale Univ.*) 1965. *Akron, Ohio*

*Rogers, Malcolm Porteous, A.B. (*Yale Univ.*) 1965, B.M.S. (*Dartmouth Coll.*) 1967. [Dartmouth Medical School]. *New York, N.Y.*

Rosenblum, Ruth Ellen, (*Wellesley Coll.*). *Los Angeles, Calif.*

Rottenberg, David Allan, A.B. (*Univ. of Michigan*) 1963, M.SC. (*Cambridge Univ.*) 1965. *Detroit, Mich.*

*Rudy, Steven Michael, A.B. 1965, B.M.S. (*Dartmouth Coll.*) 1967. [Dartmouth Medical School]. *Belmont*

Schlenker, James David, A.B. 1965. *Peru, Ill.*

Schutz, James Scott, A.B. (*Yale Univ.*) 1965. *New York, N.Y.*

Schwartz, Ronald Harris, A.B. (*Cornell Univ.*) 1965. *Kenmore, N.Y.*

Seaman, William Ewing, A.B. (*Princeton Univ.*) 1964. *East Lansing, Mich.*

Silvio, Joseph Rocco, A.B. (*Cornell Univ.*) 1965. *Elizabeth, N.J.*

Snyder, Howard McCrum, 3d, A.B. (*Princeton Univ.*) 1965. *Atlanta, Ga.*

Spitz, Leslie Mike, A.B. 1965. *Wilmette, Ill.*

Stanberry, Mark Chauncy, S.B. (*Univ. of Arizona*) 1964. *Tucson, Ariz.*

Stelovich, Steve Dennis, A.B. 1963. *Salt Lake City, Utah*

Stephens, Joseph William, 3d, S.B. (*Emory Univ.*) 1965. *Macon, Ga.*

*Stopford, Frederick Woodhall, A.B. (*Dartmouth Coll.*) 1965, B.M.S. (*ibid.*) 1967. [Dartmouth Medical School]. *Fort Lauderdale, Fla.*

Stulbarg, Michael Stewart, S.B. (*Massachusetts Inst. of Technology*) 1964. *Cincinnati, Ohio*

*Swanson, Michael Warren, A.B. (*Wesleyan Univ.*) 1965, B.M.S. (*Dartmouth Coll.*) 1967. [Dartmouth Medical School]. *Ruxton, Md.*

Tesar, Paul Louis, B.S. IN E.E. (*Univ. of Massachusetts*) 1964. *Flushing, N.Y.*

Thibault, George Edwin, Jr., A.B. (*Georgetown Univ.*) 1965. *Chittenango, N.Y.*

Thomas, Elizabeth Walke, A.B.† (*Radcliffe Coll.*) 1965. *Chevy Chase, Md.*

Tracy, David Mears, A.B. (*Yale Univ.*) 1965. *Pittsfield*

Tuffli, Charles Frederick, Jr., A.B. (*Yale Univ.*) 1965. *Menlo Park, Calif.*

Vickery, Donald Michael, A.B. 1965. *Vienna, Va.*

*Viglotti, Joseph Francis, A.B. (*Johns Hopkins Univ.*) 1965, B.M.S. (*Dartmouth Coll.*) 1967. [Dartmouth Medical School]. *Springfield, Pa.*

Walsh, John Vincent, Jr., A.B. (*Boston Coll.*) 1964. *Buffalo, N.Y.*

*Wegmann, Thomas George, A.B. (*Univ. of Wisconsin*) 1963. [Univ. of Wisconsin Medical School]. *Wauwatosa, Wisc.*

Workman, Robert Jay, A.B. (*Princeton Univ.*) 1964. *Staten Island, N.Y.*

Yurcisin, Daniel, A.B. (*Princeton Univ.*) 1965. *Roebling, N.J.*

Second Year Class (1970)

Ain, Jonathan David, A.B. (*Cornell Univ.*) 1966. *New York, N.Y.*

Akins, Cary Willard, A.B. 1966. *Red Wing, Minn.*

Albeck, Joseph Henry, A.B. (*Columbia Univ.*) 1966. *Brooklyn, N.Y.*

Anane-Sefah, John Camara (*Yale Univ.*) *Accra, Ghana*

Anderson, Frank Hughes, A.B. 1966. *Berwyn, Penna.*

Anderson, Thomas McDowell, Jr., A.B. (*Princeton Univ.*) 1966. *Arlington, Va.*

Angoff, Gerald Harvey, A.B. 1966. *Newton Centre*

Applegate, Clarence William, A.B. (*Oberlin Coll.*) 1966. *Tucson, Ariz.*

Ault, Kenneth Ashley, S.B. (*Massachusetts Inst. of Technology*) 1966. *Denver, Colo.*

Barkin, Roger Michael, A.B. (*Brandeis Univ.*) 1966. *Paris, France*

Bennett, Michael Isaiah, A.B. 1966. *Toronto, Ont., Canada*

Bennion, Lynn Jacobsen, A.B. 1966. *Palo Alto, Calif.*

Benson, James Wood, Jr., A.B. (*Stanford Univ.*) 1966. *Aptos, Calif.*

Berv, Kenneth Robert, A.B. (*Yale Univ.*) 1966. *Oceanside, N.Y.*

Blumenthal, Eileen, A.B. †(*Radcliffe Coll.*) 1966. *Oceanside, N.Y.*

Boetcher, David Allen, A.B. (*Princeton Univ.*) 1966. *Evanston, Ill.*

Bough, Edward William, S.B. (*Loyola Univ.*) 1966. *Chicago, Ill.*

Bours, William Alsop, IV, A.B. (*Stanford Univ.*) 1966. *Wilmington, Del.*

Breed, Robert Huntington, 2d, A.B. (*Yale Univ.*) 1966. *Poughkeepsie, N.Y.*

° Transferred to the second year class.
† Degree conferred by Harvard University.
N.B. Where the college name is omitted, the college is Harvard; where the state is omitted, the state is Massachusetts.

Breuer, Anthony Carl, A.B. (*Princeton Univ.*) 1965. *Princeton, N.J.*
Brondfield, Eric Steven, A.B. 1966. *Roslyn Heights, N.Y.*
Browne, Kay Frost Shaw, A.B. (*Mt. Holyoke Coll.*) 1966. *Cranbury, N.J.*
Camfield, Peter Robert, B.A. (*Queen's Univ.*) 1966. *Ottawa, Ont., Canada*
Cannon, Woodward, A.B. 1966. *Lincoln*
Citron, John Michael Tamor, A.B. (*Williams Coll.*) 1966. *North Miami, Fla.*
Clarke, Lewis John, A.B. 1966. *Buffalo, N.Y.*
Cohen, Philip, A.B. (*Columbia Univ.*) 1966. *Brooklyn, N.Y.*
Cooperman, Oliver Burton, A.B. (*Dartmouth Coll.*) 1966. *Fords, N.J.*
°Cox, Malcolm Charles Leslie, B.SC. (*Univ. of the Witwatersrand*) 1965, B.SC. (*ibid.*) 1966, M.SC. (*ibid.*) 1967. [*Univ. of the Witwatersrand Medical School*]. *Johannesburg, South Africa*
Crockett, David Shan, A.B. (*Cornell Univ.*) 1966. *Cincinnati, Ohio*
Davidoff, Ira Gordon, S.B. (*Massachusetts Inst. of Technology*) 1966. *Flushing, N.Y.*
Davies, John Anthony Kent, A.B. 1965. *Brookline*
Davis, Charles Abraham, S.B. (*Massachusetts Inst. of Technology*) 1966. *Greenburg, Penna.*
Dean, Peter Berridge, S.B. (*Cornell Univ.*) 1966. *Cincinnati, Ohio*
Dellinger, Evan Patchen, A.B. (*Swarthmore Coll.*) 1966. *Hampton, N.J.*
Di Giacinto, George Vincent, A.B. (*Columbia Univ.*) 1966. *Yonkers, N.Y.*
Dixon, Jonathan Allan, A.B. 1966. *Farmington, Conn.*
Duhme, David Ware, A.B. 1966. *St. Louis, Mo.*
Emans, John Barker, 2d, A.B. 1966. *Randolph, Vt.*
Emans, Sarah Jean Herriot, A.B. †(*Radcliffe Coll.*) 1966. *New York, N.Y.*
Ericsson, Charles Derwin, A.B. 1966. *Fairfax, Va.*
Fareed, George Carr, A.B. (*Univ. of California, Berkeley*) 1966. *Los Angeles, Calif.*
Ferber, Richard Alan, A.B. 1965. *Chicago, Ill.*
Fernbach, Barry Richard, A.B. (*Colgate Univ.*) 1966. *Valley Stream, N.Y.*
Fisher, Richard Ian (*Harvard Univ.*). *Coral Gables, Fla.*
Folland, Edward Denton, A.B. (*Yale Univ.*) 1966. *Salt Lake City, Utah*
Fredlund, Paul Noel, A.B. 1966. *Minneapolis, Minn.*

Freedberg, Leonard Earl, A.B. 1965. *Brookline*
Gerson, Donald Edward, A.B. 1965. *Dayton, Ohio*
Gittinger, John William, Jr., A.B. (*Oberlin Coll.*) 1966. *Annandale, Va.*
Goldman, Mitchell Howard, A.B. (*Brandeis Univ.*) 1966 *Quincy*
Goldsmith, George Hale, Jr., A.B. (*Washington Univ.*) 1966. *New Orleans, La.*
Good, Michael Ian, A.B. (*Univ. of Minnesota*) 1966. *New Ulm, Minn.*
Goodman, William Samuel, A.B. 1966. *Babylon, N.Y.*
Gottesman, Michael Marc, A.B. 1966. *Flushing, N.Y.*
Green, Mark Ronald, A.B. 1966. *South Norwalk, Conn.*
Greenblatt, David John, A.B. (*Amherst Coll.*) 1966. *Newton*
Groat, Robert Lanier, S.B. (*Davidson Coll.*) 1966. *Greensboro, N.C.*
Gross, Peter Lloyd, A.B. 1966. *Swampscott*
Gunderson, Paul Einar, A.B. 1966. *Enumclaw, Wash.*
Gustavson, Edward Ernest, A.B. (*Gustavus Adolphus Coll.*) 1966. *Northbrook, Ill.*
Hafner, Daniel James, A.B. (*Boston Univ.*) 1966. *Newell, S.D.*
Helpern, Joan Marilyn, A.B. †(*Radcliffe Coll.*) 1966. *New York, N.Y.*
Herzog, James Michael, A.B. 1965. *Lockport, N.Y.*
Howell, Stephen Barnard, A.B. (*Univ. of Chicago*) 1966. *Lexington*
Hyman, Frederic Evan, A.B. (*Columbia Univ.*) 1966. *Brooklyn, N.Y.*
Irwin, Charles Fayette, 3d, A.B. 1966. *Tipp City, Ohio*
Jamison, Wallace Glenn, S.B. (*Westminster Coll.*) 1966. *New Wilmington, Penna.*
°Kark, Elizabeth Coe Cohn, A.B. (*Mount Holyoke Coll.*) 1964, B.A. (*Oxford Univ.*) 1967. [Oxford Univ. Medical School]. *New York, N.Y.*
Kern, David Evans, A.B. (*Princeton Univ.*) 1966. *Cincinnati, Ohio*
Kopf, Gary Sheldon, A.B. (*Columbia Univ.*) 1966. *Plainview, N.Y.*
Kulczycki, Anthony, Jr., A.B. (*Princeton Univ.*) 1966. *Easton, Penna.*
Landres, Richard Terry, A.B. (*Stanford Univ.*) 1966. *Encino, Calif.*
Lanken, Paul Nicholas, A.B. 1966. *Nutley, N.J.*
Lieber, Michael Maurice, A.B. 1966. *Arlington, Va.*
Lieff, Jonathan David, A.B. (*Yale Univ.*) 1966. *Newark, N.J.*
Lozner, Eugene Culver, A.B. (*Amherst Coll.*) 1966. *Syracuse, N.Y.*
Mackenzie, Thomas Brooke, A.B. 1966. *Denver, Colo.*
MacLean, Paul Donald, Jr., A.B. (*Yale Univ.*) 1965. *Potomac, Md.*
Meyers, Joel David, A.B. (*Dartmouth Coll.*) 1966. *Houston, Texas*

Millis, Michael Brian, A.B. 1966. *Toledo, Ohio*

°Munford, Robert Sims, 3d, A.B. (*Vanderbilt Univ.*) 1964, B.A. (*Oxford Univ.*) 1967. [Oxford Univ. Medical School]. *Jackson, Miss.*

Noble, Robert Michael Courtney, B.SC. (*Univ. of British Columbia*) 1966. *Vancouver, B.C., Canada*

Noseworthy, John, Jr., S.B. (*Bates Coll.*) 1965. *Plymouth, N.H.*

Oster, Charles Nelson, S.B. (*Univ. of Wisconsin*) 1966. *Beloit, Wisc.*

Ottesen, Eric Albert, A.B. (*Princeton Univ.*) 1965. *Cincinnati, Ohio*

Pashler, Josephine Elizabeth, A.B. †(*Radcliffe Coll.*) 1966. *Schenectady, N.Y.*

Pearlman, Alan Stuart, A.B. (*Williams Coll.*) 1966. *Rochester, N.Y.*

Peppercorn, Margaret Tova Bessin, A.B. †(*Radcliffe Coll.*) 1966. *New York, N.Y.*

Pierce, Ralph Wendell, A.B. 1966. *St. Louis, Mo.*

Pock, Randolph William, S.B. (*Allegheny Coll.*) 1966. *Coraopolis, Penna.*

°Polonsky, Derek Colin, B.SC. (*Univ. of the Witwatersrand*) 1966. [Univ. of the Witwatersrand Medical School]. *Johannesburg, South Africa*

Raaf, John Hart, A.B. 1963, DR.PHIL. (*Univ. of Oxford*) 1966. *Portland, Oregon*

Rabb, James Mark, A.B. 1966. *Cambridge*

Raskin, Stephen Paul, A.B. (*Brandeis Univ.*) 1966. *Silver Spring, Md.*

Ribner, Bruce Steven, A.B. (*Princeton Univ.*) 1966. *Brooklyn, N.Y.*

Richardson, John Marshall, A.B. 1966. *Tyler, Texas*

Robinson, Richard Allen, A.B. (*Rutgers Univ.*) 1966. *Levittown, Penna.*

Rogers, Jeffrey Langston, A.B. (*Dartmouth Coll.*) 1966. *Bethesda, Md.*

Romm, Fredric Jay, A.B. (*Columbia Univ.*) 1966. *Brooklyn, N.Y.*

Rosenfeld, Alvin A., A.B. (*Cornell Univ.*) 1966. *Brooklyn, N.Y.*

Rosenthal, Susan Nancy, A.B. †(*Radcliffe Coll.*) 1966. *Tenafly, N.J.*

Ross, Michael Elliot, A.B. (*Yale Univ.*) 1966. *Portland, Conn.*

Russell, Robin Osborne, A.B. (*Yale Univ.*) 1964. *Nampa, Idaho*

Sandberg, Glenn Willard, Jr., A.B. (*Columbia Univ.*) 1966. *Denver, Colo.*

Schulman, Carol Ann Brimberg, A.B. †(*Radcliffe Coll.*) 1966. *Silver Spring, Md.*

Shelton, James Houston, A.B. 1966. *Dallas, Texas*

Simmons, Jeffrey Law, A.B. 1966. *Marblehead*
Simson, Michael Byron, A.B. 1966. *Grosse Pointe, Mich.*
Sklar, Marshall Dore, A.B. (*Brown Univ.*) 1966. *Camden, N.J.*
Smith, Howard Gary, A.B. (*Princeton Univ.*) 1966. *Pittsburgh, Penna.*
Soll, Andrew H., A.B. (*Pomona Coll.*) 1966. *Los Angeles, Calif.*
Solomons, Noel Willis, A.B. 1966. *Cambridge*
Stein, Richard Steven, A.B. 1966. *Lincolnwood, Ill.*
Stevens, Rose Marie, A.B. (*Manhattanville Coll. of the Sacred Heart*) 1966. *Rochester, Mich.*
Tenney, James Hugh, A.B. 1966. *Briarcliff Manor, N.Y.*
Tew, Richard Harry, A.B. (*Univ. of Washington*) 1966. *Richland, Wash.*
°Tucker, Robert Wilson, 3d, A.B. (*Dartmouth Coll.*) 1963, B.A. (*Oxford Univ.*) 1967. [Oxford Univ. Medical School]. *Columbus, Ohio*
Veazey, James Marion, Jr., S.B. (*Massachusetts Inst. of Technology*) 1966. *Decatur, Ga.*
Warren, John Windiate, A.B. (*Univ. of Michigan*) 1966. *Wichita, Kans.*
Weens, Joan Harriet, A.B. †(*Radcliffe Coll.*) 1966. *Atlanta, Ga.*
Weiler, Mary Margaret, A.B. (*Vassar Coll.*) 1966. *Burt, N.Y.*
Weissman, Jack Burton, A.B. (*New York Univ.*) 1966. *Brooklyn, N.Y.*
Wilkoff, William Gordon, A.B. (*Dartmouth Coll.*) 1966. *Pleasantville, N.Y.*
Williams, Sankey Vaughan, A.B. (*Princeton Univ.*) 1966. *Nicholasville, Ky.*
Wyler, David John, A.B. (*Brown Univ.*) 1966. *Scarsdale, N.Y.*
Yee, Robert Donald, A.B. 1966. *San Francisco, Calif.*

First Year Class (1971)

Abbott, Arthur Travis, A.B. (*Univ. of North Carolina*) 1967. *Chapel Hill, N.C.*
Ablett, Charles Timothy, A.B. (*Grinnell Coll.*) 1967. *Fort Huachuca, Ariz.*
Alexander, Judith Lee, A.B. †(*Radcliffe Coll.*) 1967. *New York, N.Y.*
Allen, Robert Paul, S.B. (*Allegheny Coll.*) 1967. *Kingston, N.Y.*

N.B. Where the college name is omitted, the college is Harvard; where the state is omitted, the state is Massachusetts.

Bahr, Robert Lawrence, A.B. (*Williams Coll.*) 1967. *Manhasset, N.Y.*
Baker, Robert Alan, A.B. (*Dartmouth Coll.*) 1967. *Cleveland, Ohio*
Banks, Peter Murray, A.B. (*Williams Coll.*) 1967. *Quincy*
Bear, David Michael, A.B. 1965. *Akron, Ohio*
Beart, Robert Woodward, Jr., A.B. (*Princeton Univ.*) 1967. *Park Ridge, Ill.*
Berson, Frank Gerald, A.B. (*Yale Univ.*) 1967. *Chelsea*
Billings, John Andrew, A.B. (*Amherst Coll.*) 1967. *Los Angeles, Calif.*
Binder, Andrew Steven, A.B. (*Williams Coll.*) 1967. *Teaneck, N.J.*
Boey, John Hoong, A.B. (*Princeton Univ.*) 1967. *Holliswood, N.Y.*
Boger, William Pierce, 3d, A.B. (*Amherst Coll.*) 1967. *Wayne, Pa.*
Burch, John William, S.B. IN CHEM. (*Univ. of Michigan*) 1967. *Framingham*
Burke, Donald Scott, A.B. (*Western Reserve Univ.*) 1967. *Novelty, Ohio*
Carmel, Richard John, A.B. (*Univ. of California, Berkeley*) 1966. *Los Angeles, Calif.*
Cassimatis, Emmanuel George, A.B. (*Univ. of Chicago*) 1967. *Athens, Greece*
Chapman, Robert Sedgwick, A.B. 1966. *Darien, Conn.*
Charlton, Valerie Eden, A.B. †(*Radcliffe Coll.*) 1967. *Bronx, N.Y.*
Chase, John Samuel, A.B. 1967. *Waban*
Christiansen, John Merrill, A.B. 1967. *Salt Lake City, Utah*
Compeau, Phillip Edward Charles, A.B. (*Univ. of Rochester*) 1967. *Rochester, N.Y.*
Cooper, Gale Susan, A.B. (*Smith Coll.*) 1967. *White Plains, N.Y.*
Craig, William Robert, A.B. (*Univ. of Oregon*) 1964, A.M. 1967. *Sacramento, Calif.*
Crofoot, David Dean, A.B. (*Stanford Univ.*) 1967. *Omaha, Nebr.*
Curd, John Gary, A.B. (*Princeton Univ.*) 1967. *Golden, Colo.*
Donaldson, Magruder Craighead, A.B. 1966. *Lincoln*
Duffy, David Lee, A.B. (*Amherst Coll.*) 1967. *Port Washington, N.Y.*
Eron, Lawrence Joseph, A.B. (*Princeton Univ.*) 1966. *Millburn, N.J.*
Feldman, George Bernard, S.B. (*Massachusetts Inst. of Technology*) 1967. *Union, N.J.*
Finberg, Harris Jay, A.B. (*Brown Univ.*) 1967. *Providence, R.I.*
Fineberg, Harvey Vernon, A.B. 1967. *Pittsburgh, Pa.*
Fisher, Charles Paul, A.B. 1967. *Falls Church, Va.*

Fishman, Robert Stephen, A.B. (*Tufts Univ.*) 1967. *Teaneck, N.J.*
Fossum, Jane Elizabeth, A.B. (*Vassar Coll.*) 1967. *Fargo, N.Dak.*
Frisch, Lawrence Edward, A.B. (*Reed Coll.*) 1967. *Portland, Ore.*
Fuller, Arlan Frank, Jr., A.B. (*Bowdoin Coll.*) 1967. *Melrose*
Gilchrest, Barbara Ann Desmond, S.B. (*Massachusetts Inst. of Technology*) 1967. *Rye, N.Y.*
Girshon, Deanna P., A.B. (*Rutgers Univ., Newark*) 1965. *Jersey City, N.J.*
Glass, Allan Richard, A.B. 1967. *Fairfield, Conn.*
Goldman, Mark Robert, S.B. (*Massachusetts Inst. of Technology*) 1967. *Pittsburgh, Pa.*
Goodfellow, Robin Irene, A.B. (*Western Reserve Univ.*) 1967. *Yellow Springs, Ohio*
Goodson, William Hammack, 3d, A.B. (*Univ. of Missouri*) 1967. *Kansas City, Mo.*
Goodwin, James Simeon, A.B. (*Amherst Coll.*) 1967. *Washington, D.C.*
Gould, Robert Mark, A.B. (*Brown Univ.*) 1967. *Great Neck, N.Y.*
Graves, Howard Christian, A.B. (*Stanford Univ.*) 1966. *Salt Lake City, Utah*
Graze, Peter Robert, S.B. (*Tufts Univ.*) 1967. *Jamaica, N.Y.*
Greenberger, Joel Steven, A.B. (*Columbia Univ.*) 1967. *Pittsburgh, Pa.*
Guyton, Robert Allan, S.B. (*Univ. of Mississippi*) 1967. *Jackson, Miss.*
Hamilton, John David, A.B. (*Princeton Univ.*) 1966. *Arlington, Va.*
Hansbrough, John Fenwick, S.B. (*Univ. of Wisconsin*) 1967. *Madison, Wisc.*
Hashimoto, Frederick, S.B. (*Yale Univ.*) 1967. *Chicago, Ill.*
Haynes, Ormond Lee, Jr., A.B. (*Williams Coll.*) 1967. *Fairmont, W.Va.*
Hickman, Janet Karen Gratner, S.B. (*Michigan State Univ.*) 1967. *Mankato, Minn.*
Hickman, Robert Edward, S.B. (*Univ. of Illinois*) 1967. *Benton, Ill.*
Hughes, John Boland, A.B. (*Yale Univ.*) 1967. *Haverford, Pa.*
Janicki, Paul Clement, S.B. (*Marquette Univ.*) 1967. *Elm Grove, Wisc.*
Jones, Frederick Lewis, A.B. (*Univ. of Virginia*) 1967. *Mt. Lebanon, Pa.*
Jones, George Thomas, A.B. 1967. *Ravenna, Ohio*
Karpinski, Richard Henry Stephen, S.B. (*St. Joseph's Coll., Pennsylvania*) 1967. *Philadelphia, Pa.*

Kenny, Peter Charles, 3d, S.B. (*Providence Coll.*) 1967. *Great Neck, N.Y.*
Kissel, John Hubert, S.B. (*Georgetown Univ.*) 1967. *St. Louis, Mo.*
Klein, Robert Stephen, A.B. (*Columbia Univ.*) 1967. *Jamaica, N.Y.*
Kolff, Cornelis Albert, S.B. (*Allegheny Coll.*) 1967. *Salt Lake City, Utah*
Koopman, William James, 3d, A.B. (*Washington and Jefferson Coll.*) 1967. *Knowle, Warwickshire, England*
Landis, Dennis Michael Doyle, A.B. 1967. *Portuguese Bend, Calif.*
Lange, Vladimir, A.B. (*New York Univ.*) 1967. *New York, N.Y.*
Lease, John Richard, S.B. (*Yale Univ.*) 1966. *Somerset, Pa.*
Lebwohl, David Julien, A.B. (*Yale Univ.*) 1967. *Ossining, N.Y.*
Leslie, Bruce Robert, A.B. 1967. *Brooklyn, N.Y.*
Lewis, Collins Everett, A.B. (*Rutgers Univ., New Brunswick*) 1967. *North Brunswick, N.J.*
Lindsey, Harold Eugene, Jr., S.B. (*Univ. of South Carolina*) 1967. *Decatur, Ga.*
London, Charles David, A.B. 1967. *Beverly Hills, Calif.*
Lowe, David Alan (*Univ. of Massachusetts, Amherst*). *Dorchester*
Lyman, Bruce Taft, S.B. (*Bates Coll.*) 1967. *New London, Conn.*
Lytle, Bruce Whitney, A.B. (*Stanford Univ.*) 1967. *Fargo, N.Dak.*
McClung, Jean Patricia, A.B. †(*Radcliffe Coll.*) 1967. *Lawton, Okla.*
McDonald, Eugene Joseph, Jr., A.B. 1967. *Washington, D.C.*
Manders, Ernest Kelvin, A.B. 1967. *Coos Bay, Ore.*
Meyer, Allen Frederick, A.B. (*Yale Univ.*) 1967. *Plainfield, N.J.*
Mickley, Steven Phillips, A.B. (*Bowdoin Coll.*) 1967. *Belmont*
Milford, Edgar Louis, Jr., A.B. 1967. *Nanuet, N.Y.*
Murray, Alexandra Jane, A.B. †(*Radcliffe Coll.*) 1967. *DeKalb, Ill.*
Nathan, Carl Francis, A.B. 1967. *New York, N.Y.*
Neumann, Kurt Harrison, S.B. (*Univ. of Michigan*) 1967. *Royal Oak, Mich.*
Nierenberg, Michael Alan, A.B. (*Oberlin Coll.*) 1967. *Wilmington, Del.*
Orkin, Stuart Holland, S.B. (*Massachusetts Inst. of Technology*) 1967. *New York, N.Y.*
Orme, James Forrest, Jr., A.B. (*Yale Univ.*) 1967. *Salt Lake City, Utah*
Pagon, Roberta Vail Anderson, A.B. (*Stanford Univ.*) 1967. *Rochester, N.Y.*

Patricelli, Peter Martin, A.B. 1967. *Seattle, Wash.*
Pierce, Letitia Power, A.B. (*Vassar Coll.*) 1967. *Baltimore, Md.*
Pohl, Richard Lewis, A.B. (*Princeton Univ.*) 1967. *Lynbrook, N.Y.*
Popper, Charles William, A.B. (*Princeton Univ.*) 1967. *New York, N.Y.*
Raetz, Christian Rudolf Hubert, S.B. (*Yale Univ.*) 1967. *Hamden, Conn.*
Reider, Horace Oliver, A.B. (*Univ. of North Carolina*) 1967. *Rosemont, Pa.*
Rigberg, Corey Nyles, A.B. 1967 *Philadelphia, Pa.*
Robbins, Ann Carol, A.B. (*Mt. Holyoke Coll.*) 1967. *Metuchen, N.J.*
Rosenbaum, Richard Barry, A.B. 1967. *Portland, Ore.*
Rosenberg, Mark Lewis, A.B. 1967. *Montclair, N.J.*
Rosenblatt, Roger Alan, A.B. 1967. *Alexandria, Va.*
Ruskin, Jeremy Neil, S.B. (*Tufts Univ.*) 1967. *Rockville Centre, N.Y.*
Schnitzer, Thomas Jack, A.B. (*Princeton Univ.*) 1967. *Baltimore, Md.*
Schwartz, Joel Howard, A.B. (*Univ. of Pennsylvania*) 1967. *Brooklyn, N.Y.*
Seinsheimer, Frank, 3d, S.B. (*Yale Univ.*) 1967. *Cincinnati, Ohio.*
Sennett, Jordan Avery, A.B. 1967. *Milwaukee, Wisc.*
Shelton, Rufus Waid, Jr., A.B. 1967. *Trussville, Ala.*
Sigelman, Jesse Leonard, A.B. (*Haverford Coll.*) 1967. *Staten Island, N.Y.*
Spiegel, Allen Michael, A.B. (*Columbia Univ.*) 1967. *Brooklyn, N.Y.*
Spiegel, David, A.B. (*Yale Univ.*) 1967. *New York, N.Y.*
Stamm, Walter Edward, A.B. (*Stanford Univ.*) 1967. *Portland, Ore.*
Stark, James J., A.B. (*Yale Univ.*) 1967. *Palisade, N.J.*
Strunk, Brian Lippman, A.B. (*Princeton Univ.*) 1967. *Coatesville, Pa.*
Sviokla, Sylvester Charles, 3d, A.B. 1967. *Brockton*
ten Broeke, John William, A.B. (*Wesleyan Univ.*) 1967. *Cape Elizabeth, Me.*
Verlenden, William Lane, 3d, A.B. (*Univ. of North Carolina*) 1967. *Lookout Mountain, Tenn.*
Voralik, Frank Jerome, A.B. (*Columbia Univ.*) 1967. *Glendale, Calif.*
Wallyn, Robert Henry, A.B. (*Coll. of the Holy Cross*) 1967. *Homewood, Ill.*
Walsh, Bernard Timothy, A.B. (*Princeton Univ.*) 1967. *Chevy Chase, Md.*
Walter, Paul David, S.B. (*Univ. of Pittsburgh*) 1967. *Johnstown, Pa.*

Weng, Ssu Isabel, A.B. †(*Radcliffe Coll.*) 1966. *New York, N.Y.*
Whiffen, John Robert, (*Univ. of Wisconsin*). *Madison, Wisc.*
Wickner, William Tobey, A.B. (*Yale Univ.*) 1967. *Bethesda, Md.*
Wing, Edward Joseph, A.B. (*Williams Coll.*) 1967. *Port Washington, N.Y.*
Young, James Braham, A.B. (*Coll. of Wooster*) 1967. *Tarentum, Pa.*

MEDICAL SCHOOL SUMMARY 1967–1968
(as of registration September 1967)

Fourth Year	139
Third Year	165
Second Year	127
First Year	125
Total	556

Colleges Represented

Allegheny College	3
Amherst College	12
Antioch College	1
Arizona, University of	1
Arlington State College	1
Augustana College (South Dakota)	1
Bates College	2
Bennington College	1
Boston College	1
Boston University	2
Bowdoin College	7
Brandeis University	4
British Columbia, University of	1
Brooklyn College of The City University of New York	1
Brown University	4
Bryn Mawr College	1
California, University of (at Berkeley)	3
Carleton College	2
Chicago, University of	6
City College of The City University of New York	1
Colby College	1
Colgate University	2
Colorado, University of	1
Columbia University	18
Cornell University	10
Dartmouth College	46
Davidson College	1
Denison University	1
Denver, University of	1
DePauw University	1
Duke University	1
Emory University	1
Fordham University	1
Georgetown University	3
Grinnell College	2
Gustavus Adolphus College	1
Harvard University	135
Haverford College	2
Hawaii, University of	1
Holy Cross, College of the	7
Illinois, University of	1
Iowa, State University of	1
Johns Hopkins University	5
Kansas, University of	2
Kansas State University	1
Lehigh University	1
Loyola University (Chicago)	1
McGill University	1
Manhattan College	1
Manhattanville College of the Sacred Heart	1
Marquette University	1
Massachusetts, University of	2
Massachusetts Institute of Technology	12
Michigan State University	1
Michigan, University of	5
Minnesota, University of	2
Mississippi, University of	2
Missouri, University of	1
Mount Holyoke College	3
Nebraska, University of	1
New York University	3
North Carolina, University of	2
North Dakota, University of	3
Oberlin College	5
Oklahoma City University	1
Oregon, University of	2
Oxford University (England)	1
Pennsylvania, University of	3
Pittsburgh, University of	1
Pomona College	3
Princeton University	37
Providence College	2
Queens College of The City University of New York	1
Queen's University	1
Radcliffe College	25
Reed College	2
Rensselaer Polytechnic Institute (New York)	1
Rice University	1
Rochester, University of	3
Rutgers University	4

St. Joseph's College (Pennsylvania)	1
Smith College	2
South Carolina, University of	1
Stanford University	14
Swarthmore College	3
Texas, University of	1
Tufts University	3
Union College	1
Vanderbilt University	1
Vassar College	3
Vermont, University of	2
Virginia, University of	2
Washington, University of	2
Washington and Jefferson College	1
Washington University	1
Wellesley College	3
Wesleyan University	4
Western Reserve University	2
Westminster College (Pennsylvania)	1
Williams College	14
Wisconsin, University of	5
Witwatersrand, University of the	2
Wooster, College of	1
Yale University	49
Yankton College	1
Yeshiva University	1
Total	558
Counted more than once	2
Total number of students	556
Entered advanced standing	97
Number of colleges represented	106
Number of college graduates	546
Number of non-graduates	10

Medical Schools Represented by Students Who Entered Harvard Medical School with Advanced Standing

Chicago, University of, School of Medicine	1
Colorado, University of, School of Medicine	1
Dartmouth Medical School	68
Harvard School of Dental Medicine	1
Nebraska, University of, College of Medicine	1
New York, State University of, Downstate Medical Center College of Medicine	1
North Dakota, University of, School of Medicine	4
Oxford University Medical School (England)	8
South Dakota, University of, School of Medicine	4
Stanford University School of Medicine	2
Virginia, School of Medicine	1
Wayne State University School of Medicine	1
Western Reserve University School of Medicine	1
Wisconsin, University of, School of Medicine	1
Witwatersrand, University of the, Medical School	2
Total	97
Total number of students admitted to first year standing	459
Total	556

Medical Students on Leave of Absence for Research and Special Study
(as of September 1967)

1967–1968

Benjamin Rix Brooks
Bernadine Patricia Healy Bulkley
Gregory Bartlett Bulkley
William Holmes Burns
George Khoury, Jr.
Robert Aaron Levine
Herbert Carpenter Morse, 3d
Richard Neal Podell
Peter Grier Trafton

SCHOOL OF DENTAL MEDICINE

STAFF

Barry J. Agranat, D.M.D., Instructor in Oral Surgery.

John T. Albright, D.D.S., Ph.D., Research Associate in Oral Pathology.

Myron Allukian, Jr., D.D.S., Research Fellow in Ecological Dentistry.

Morton Amsterdam, D.D.S., Lecturer on Periodontology.

Melvin A. Andell, D.D.S., Instructor in Orthodontics.

Dino R. Angelici, D.D.S., Research Associate in Dentistry.

David T. Armstrong, Ph.D., Assistant Professor of Anatomy in the School of Dental Medicine.

Douglas A. Atwood, M.D., D.M.D., Assistant Clinical Professor of Prosthetic Dentistry.

Herbert I. Bader, D.D.S., Associate in Periodontology.

Harry K. Bailey, D.M.D., Clinical Associate in Operative Dentistry.

Mary C. Baker, M.P.H., Research Associate in Ecological Dentistry.

Laurence I. Barsh, D.M.D., Instructor in Operative Dentistry.

Harold R. Behrman, Ph.D., Research Fellow in Physiology in the School of Dental Medicine.

Robert E. Binder, D.M.D., Research Fellow in Orthodontics.

Donald F. Booth, D.M.D., Assistant in Oral Surgery.

Charles R. Bowen, D.M.D., Teaching Fellow in Oral Surgery.

Edna M. Bradbury, D.H., Lecturer on Dental Hygiene.

Norman T. Budde, D.M.D., Instructor in Pediatric Dentistry.

Duane F. Carbone, D.M.D., Instructor in Dental Medicine.

Thurston J. Carpenter, D.M.D., Instructor in Prosthetic Dentistry.

Richard S. Carroll, Ph.D., Assistant to the Dean of the School of Dental Medicine for Planning and Development.

Johanna T. Chao, B.D.S., Research Associate in Periodontology.

Theresa P. Chiang, D.D.S., Teaching Fellow in Pediatric Dentistry.

George Christman, D.M.D., Instructor in Oral Surgery.

Carl G. Cohen, D.M.D., Instructor in Pediatric Dentistry.

Melvin I. Cohen, D.M.D., Associate Clinical Professor of Orthodontics.

Willard A. Coy, D.M.D., Instructor in Prosthetic Dentistry.

Vincent DeAngelis, D.M.D., Research Associate in Orthodontics.

Norman Dejong, D.D.S., Research Fellow in Ecological Dentistry.

Eleanor T. DeRoche, D.M.D., Instructor in Prosthetic Dentistry.

Herman De Wilde, M.D., D.M.D., Clinical Associate in Oral Surgery.

I. Leon Dogon, D.M.D., Clinical Associate in Operative Dentistry.

Joel P. Douglas, D.M.D., Instructor in Orthodontics.

John D. Doykos, III, D.M.D., Assistant in Pediatric Dentistry.

James M. Dunning, D.D.S., M.P.H., Professor of Ecological Dentistry.

James F. Durkin, D.D.S., Instructor in Orthodontics (from October 1, 1967).

Harold L. Ehrlich, D.M.D., Assistant Clinical Professor of Prosthetic Dentistry.

Henry D. Epstein, D.M.D., Assistant Clinical Professor of Periodontology.

James W. Etherington, D.M.D., Assistant Clinical Professor of Operative Dentistry.

Robert E. Evans, D.M.D., Assistant in Oral Surgery.

Victor S-K. Fang, Ph.D., Research Fellow in Pharmacology in the School of Dental Medicine.

David J. Farrell, D.M.D., Assistant Clinical Professor of Prosthetic Dentistry.

Robert W. Fasciano, D.M.D., Instructor in Periodontology.

Norton Fishman, D.M.D., Clinical Associate in Prosthetic Dentistry.

George Freedman, M.A., Lecturer on Prosthetic Dentistry.

Philias R. Garant, D.M.D., Research Fellow in Periodontology.

Itzhak Gedalia, Ph.D., Research Associate in Periodontology (through November 30, 1967).

Vincent Genua, D.M.D., Instructor in Prosthetic Dentistry.

Irwin I. Getz, D.D.S., Instructor in Prosthetic Dentistry.

Ronald J. Gibbons, Ph.D., Assistant Clinical Professor of Bacteriology in the School of Dental Medicine.

Donald B. Giddon, D.M.D., Ph.D., Lecturer on Ecological Dentistry.

Robert L. Glass, D.M.D., Dr.P.H., Associate Clinical Professor of Ecological Dentistry, and Director of Clinical Services.

Harold S. Gold, D.M.D., Clinical Associate in Prosthetic Dentistry.

Paul Goldhaber, D.D.S., A.M. (hon.), Professor of Periodontology, Director of Postdoctoral Studies in the Harvard School of Dental Medicine, and Tutor in Dentistry.

Joel Goldin, D.M.D., Lecturer on Prosthetic Dentistry.

Lorne M. Golub, D.M.D., Research Fellow in Periodontology.

Dwight F. Gordon, Ph.D., Instructor in Bacteriology in the School of Dental Medicine.

George D. Gordon, D.M.D., Research Fellow in Periodontology.

Louis H. Green, D.M.D., Research Fellow in Periodontology.

Ronald A. Greenspan, D.D.S., Research Fellow in Orthodontics.

Anna-Marie Grøn, D.D.S., Clinical Associate in Orthodontics.

Walter C. Guralnick, D.M.D., Clinical Professor of Oral Surgery.

Robert E. Hayes, D.D.S., Assistant in Periodontology (from September 1, 1967).

E. Robert Haynes, D.M.D., Instructor in Operative Dentistry.

Stephen S. Hilzenrath, D.M.D., Research Fellow in Orthodontics.

Yu-ching Hong, D.D.S., Research Fellow in Dental Medicine (through December 31, 1967).

Terrence D. Hoover, D.M.D., Instructor in Pediatric Dentistry.

James T. Irving, Ph.D., M.D., A.M. (hon.), Professor of Physiology in the School of Dental Medicine.

Theodore M. Jackanicz, Ph.D., Research Fellow in Biological Chemistry in the School of Dental Medicine.

Anthony Jong, D.D.S., Research Fellow in Ecological Dentistry.

Paul J. Kalis, D.M.D., Instructor in Periodontology.

Krishan K. Kapur, D.M.D., Associate Clinical Professor of Prosthetic Dentistry (from August 1, 1967).

Paul L. Keyes, Ph.D., Research Fellow in Anatomy in the School of Dental Medicine.

Francis E. T. H. Khouw, D.M.D., Research Fellow in Orthodontics.

Peter G. Kimball, D.M.D., Instructor in Oral Surgery.

Ronald N. Kozlowski, D.D.S., Research Fellow in Pediatric Dentistry.

Walter S. Krawczyk, D.D.S., Research Fellow in Dental Medicine.

Mladen M. Kuftinec, D.M., Research Fellow in Orthodontics.

Harry Kushnir, D.M.D., Instructor in Prosthetic Dentistry.

Donald L. Leake, D.M.D., Instructor in Pediatric Dentistry (through September 15, 1967).

Jesse C. Leatherwood, A.B., Administrative Assistant to the Dean of the School of Dental Medicine.

Laure M. Lebret, D.F.M.P., Clinical Associate in Orthodontics.

Gary S. Leske, D.D.S., Research Fellow in Ecological Dentistry.

Dennis H. Leverett, D.D.S., Research Fellow in Ecological Dentistry (from September 1, 1967).

Eugene A. Lewis, D.D.S., Research Fellow in Orthodontics.

Robert C. Lincoln, D.M.D., Instructor in Oral Surgery.

Khang-lee Liu, B.D.S., Teaching Fellow in Pediatric Dentistry.

Walter J. Loesche, D.M.D., Instructor in Bacteriology in the School Dental Medicine.

Paul K. Losch, D.D.S., A.M. (hon.), Associate Professor of Pediatric Dentistry at The Children's Hospital, and Chief of the Dental Service at The Children's Hospital Medical Center.

Gordon J. Macdonald, Ph.D., Research Associate in Physiology in the School of Dental Medicine.

Robert J. Matusow, D.M.D., Clinical Associate in Operative Dentistry.

Gilbert H. Meyer, Jr., D.M.D., Instructor in Orthodontics.

Steven A. Miller, D.M.D., Instructor in Periodontology.

Peter B. Mills, D.D.S., Research Fellow in Orthodontics.

Charles B. Millstein, D.M.D., Instructor in Operative Dentistry.

Richard L. Miner, D.D.S., Instructor in Oral Surgery.

Coenraad F. A. Moorrees, D.D.S., A.M. (hon.), Professor of Orthodontics in the School of Dental Medicine.

Jane B. Moosbruker, Ph.D., Research Associate in Ecological Dentistry.

Edward M. Morin, D.M.D., Instructor in Orthodontics.

James E. Mulvihill, D.M.D., Research Fellow in Periodontology.

Richard L. Myerson, M.S., Lecturer on Prosthetic Dentistry.

John Nalbandian, D.M.D., Assistant Professor of Operative Dentistry.

Donald L. Nozik, D.D.S., Teaching Fellow in Oral Surgery.

J. Howard Oaks, D.M.D., Lecturer on Dentistry, Associate Dean of the School of Dental Medicine for Student Affairs, and Acting Dean of the School of Dental Medicine.

Peter Ofner, Ph.D., Research Associate in Pharmacology in the School of Dental Medicine.

Kurt Olsson, D.M.D., Research Fellow in Dentistry (through August 25, 1967).

Gerald L. O'Neill, D.M.D., Assistant Clinical Professor of Operative Dentistry.

Charles N. Pappas, D.D.S., Instructor in Operative Dentistry (from September 1, 1967).

Alan B. Perkin, D.D.S., Research Fellow in Periodontology.

E. Albert Petersen, D.M.D., Assistant in Pediatric Dentistry.

Bela E. Piacsek, Ph.D., Research Fellow in Physiology in the School of Dental Medicine.

U. Ingrid Richardson, Ph.D., Milton Research Associate in Pharmacology in the School of Dental Medicine.

Earle H. Rosenberg, D.M.D., Instructor in Oral Surgery.

Julian M. Rothblatt, D.M.D., Instructor in Orthodontics.

Stephen S. Rothman, D.D.S., Ph.D., Assistant Professor of Physiology in the School of Dental Medicine.

Emile C. A. Samaha, D.M.D., Clinical Associate in Prosthetic Dentistry.

Christian Schwabe, D.D.S., Ph.D., Assistant Professor of Biological Chemistry in the School of Dental Medicine.

Paul L. Segal, D.D.S., Assistant in Periodontology (from September 1, 1967).

Yehoshua Shapira, D.M.D., Research Fellow in Orthodontics.

James H. Shaw, Ph.D., A.M. (hon.), Professor of Nutrition in the School of Dental Medicine.

Masaharu Shimizu, D.D.S., Research Fellow in Periodontology.

Gerald Shklar, D.D.S., Lecturer on Oral Histopathology.

Leonard B. Shulman, D.M.D., Clinical Associate in Oral Surgery.

Stephen Shusterman, D.M.D., Teaching Fellow in Pediatric Dentistry.

Richard S. Sobel, D.D.S., Research Fellow in Pediatric Dentistry.

Sigmund S. Socransky, D.D.S., Assistant Clinical Professor of Bacteriology in the School of Dental Medicine.

Sven A. R. Söremark, D.D.S., Ph.D., Lecturer on Prosthetic Dentistry.

James H. Sowles, D.M.D., Instructor in Operative Dentistry.

Ralph B. Sozio, D.M.D., S.M., Instructor in Prosthetic Dentistry.

Morton Speck, D.M.D., Instructor in Orthodontics.

J. Henry Stempien, D.M.D., Instructor in Oral Surgery.

Burt D. Stern, D.M.D., Clinical Associate in Periodontology.

Joseph M. Stolman, D.M.D., S.M., Instructor in Periodontology.

Stephen Stone, D.M.D., Instructor in Periodontology.

Moses S. Strock, D.M.D., Associate Clinical Professor of Dental Medicine.

Peter E. Strock, D.D.S., Research Fellow in Dental Medicine.

Lennard T. Swanson, D.M.D., Assistant Clinical Professor of Dentistry.

Edward A. Sweeney, D.M.D., Associate in Pediatric Dentistry at The Children's Hospital.

Armen H. Tashjian, Jr., M.D., Assistant Professor of Pharmacology in the School of Dental Medicine.

G. Earl Thompson, D.M.D., Clinical Professor of Operative Dentistry.

Myron J. Van Leeuwen, D.D.S., Assistant Clinical Professor of Operative Dentistry.

Robert F. Watton, D.M.D., Lecturer on Pediatric Dentistry.

Melvyn Weinstock, D.D.S., Research Fellow in Orthodontics.

William D. Wellock, D.M.D., M.P.H., Lecturer on Ecological Dentistry.

Herbert Wells, D.M.D., Assistant Professor of Dentistry, and Director of the Clinic.

Philip H. White, D.M.D., Lecturer on Oral Surgery.

George F. Wilgram, M.D., Ph.D., Research Associate in Oral Pathology.

William L. Wilson, D.M.D., Lecturer on Orthodontics.

Roy E. Wuthier, Ph.D., Associate in Biological Chemistry in the School of Dental Medicine.

Peter K. Yen, D.M.D., Assistant Clinical Professor of Orthodontics.

Affiliated:

Herbert A. Shaw, A.B., Director of Medical Information with the University News Office.

Sherman C. Sweeney, D.D.S., Research Fellow in Biological Chemistry in the Medical School.

ANNOUNCEMENT OF COURSES

During the first two academic years, dental and medical students pursue courses of study that are alike in philosophy and objectives but that differ in content. Special exercises have been devised for dental and medical students to illustrate for each group how the basic sciences serve their respective professions. Tutorial study of dental students is under the direction of the dental staff.

As the entering classes are limited, it is possible to reduce the time usually involved in courses of dental techniques. Individual instruction, demonstrations, seminars, and conferences replace the traditional lecture system to a large degree.

A program to instruct third and fourth year students in effective use of ancillary dental personnel provides experience for each student in the performance of clinical procedures with the aid of a trained dental assistant or hygienist. Auxiliary personnel are also utilized to relieve the student of a variety of routine but time-consuming tasks.

Introduction to the Health Sciences. First year. First two weeks after Labor Day. Professor Shaw. Drs. Sweeney, Wuthier, Carbone, and Guest Lecturers.

In this laboratory and lecture course, selected fundamental concepts learned in college sciences are considered in relation to health and disease in man as demonstrations of the vital relevance of scientific information for the understanding and solving of biological problems by the student and the dentist.

Oral Histology and Pathophysiology. Second year. Professor Goldhaber and Associates.

A seminar and laboratory course devoted primarily to the growth and development of the tooth and surrounding structures and the pathology of these tissues. Special lectures concerning biochemistry, physiology, experimental pathology, and epidemiology are included.

Fundamentals of Occlusion. Third year. Dr. Epstein and Associates.

This course represents a combined effort of many disciplines to

provide basic information on the stomatognathic system as a background for an understanding of occlusion.

Dental Anatomy. First semester, third year. Assistant Professors Van Leeuwen and Nalbandian.

Instruction in dental anatomy and tooth morphology. Special emphasis is placed on individual tooth form and the relationship of the tooth in the dental arch to adjacent teeth, opposing teeth and supporting tissue. Technique practice in reproduction of tooth form is stressed using natural extracted teeth.

Nutrition. Third year. Professor Shaw and Dr. Sweeney.

Discussion of relations of nutrition to the development, maturation and maintenance of the oral tissues. Discussion of nutritional requirements, relative values of various foods and the preparation of diet histories. Clinic practice in the evaluation of diet histories and in the development of suitable recommendations for the patient.

Oral Histopathology. Third year. Professor Goldhaber; Drs. Nalbandian, Stern, and Bader.

The course consists of weekly two hour sessions composed of lectures, laboratory and student reports on the literature. The subject matter includes the histology and pathology (light microscopy and electron microscopy) of teeth and pulp, periodontium, oral mucosa, salivary glands and bone. Attempts are made to correlate the microscopic picture with the clinical findings. Emphasis is placed on experimental pathology.

Dental Medicine. Third and fourth years. Clinical Professor Guralnick, Drs. Carbone, Rosenberg, Kimball, and Christman.

A course devoted to the diagnosis and treatment of oral diseases, i.e., diseases of the periodontium, dental pulp, oral mucosa and other oral structures together with their correlation to systemic conditions. Lectures, seminars, clinical practice and observation are given both in the School Dental Clinic and at the Massachusetts General Hospital. Assignments are also made at the Peter Bent Brigham Hospital.

Infirmary procedures, identification of oral structures, methods of oral examination, history taking, and common methods of diagnosis for dental and oral disease are given in both years, supplemented by practice in the general clinic.

Ecological Dentistry. Third and fourth years. Professor Dunning

and Associate Clinical Professor GLASS; Drs. GIDDON, MOOSBRUKER, and WELLOCK of the School Dental Medicine; Drs. SCHMIDT, PECHANSKY, and YOUNG of the School of Public Health; and Dr. KING of the University Health Services.

The goal of this Department is to relate dentistry to the environment in which dental diseases occur and in which dentists must work. The teaching program of the Department includes application of statistical methods to the problems of dental disease in population groups, the place of various types of disease prevention, the relation of the dentist to society, and the scope of dentistry in comprehensive health service.

In the third year, the course begins with material on behavior problems of patients, especially children. Next comes a section on biostatistics, a continuation from material presented earlier. Preventive dentistry, epidemiology of dental disease, and the educational, cultural, and organizational problems of dental public health programs occupy the rest of the year. Visits are made to a fluoridation installation and a health center. Caries control procedures are carried out with selected clinic patients. Following this year's instruction, the student makes a survey of the health resources in a community of his choice.

In the fourth year, psychosocial problems in dentistry are taken up first. Then comes material on organization and financing of dental care programs, dental practice management, ethics and jurisprudence. Interview techniques and further caries control procedures are carried out with clinic patients.

ENDODONTICS. Third and fourth years. Dr. MATUSOW and ASSOCIATES.

In the third year, the student learns a clinical interpretation of pulpal and periapical disease, with a rationale for root canal therapy. Fundamental concepts in pathology, bacteriology and other preclinical sciences are correlated with the course. Basic endodontic procedures are introduced through lectures, laboratory techniques, and clinical demonstrations prior to the treatment of patients.

In the fourth year, clinical experience is amplified with lectures, seminars, and case discussions. More complex endodontic procedures, in addition to periapical surgery, are introduced.

Throughout the course, the integration of endodontics with re-

lated dental disciplines is emphasized. The student obtains a perspective of the subject as a part of the total oral health picture.

Operative Dentistry. Third and fourth years. Assistant Professor Nalbandian; Drs. Thompson, Etherington, Van Leeuwen, Dogon, Bailey, Haynes, Matusow, and Sowles.

Throughout the two year course, emphasis is placed upon early student-patient contact with immediate clinical application of treatment procedures. In the third year, instruction is given in oral hygiene and the clinical aspects of caries and other dental diseases. By way of lectures, demonstrations, and individual chairside discussions, the student develops proficiency in examination, diagnosis, and treatment planning. Most of the current techniques of cavity preparation utilizing conventional and high speeds are given, in conjunction with study of the various types of restorative materials.

In the fourth year, gold foil restorations are taught; some recently developed procedures are introduced and clinical practice in all phases of operative dentistry continues.

Oral Surgery. Third and fourth years. Clinical Professor Guralnick, Drs. Agranat, Christman, De Wilde, Evans, Kimball, Lincoln, Olin, Rosenberg, Shulman, Stempion, and White.

Early in the third year the students receive instruction in the basic operative techniques of general and oral surgery at the surgical laboratories of the Massachusetts General Hospital. These preliminary exercises are followed by lectures, seminars, and clinical practice of oral surgery and anesthesiology at the School of Dental Medicine clinic.

In the fourth year students are assigned to the Massachusetts General Hospital as clinical clerks on the Dental Service. At the hospital more extensive surgery of the oral cavity including traumatic injuries to the face and jaws is observed. The student takes active part in the study and treatment of such cases. Additional training in oral surgery is made available at the Boston City Hospital.

Orthodontics. Third and fourth years. Professor Moorrees; Drs. A. M. Grøn, Lear, Lebret, Swanson, Douglas, DeAngelis and Meyer.

The treatment of patients with different occlusal anomalies, in collaboration with postgraduate Fellows, provides a means to become

thoroughly familiar with clinical aspects of orthodontics during the third and fourth years. This experience adds a measure of perspective for the theoretical part of the course that consists of lectures, seminars, and diagnostic conferences. Emphasis is placed on growth and development, cephalometrics, as well as specific phases of genetics, biostatistics, anthropology and histology. Clinical demonstrations and laboratory technique exercises serve to enhance comprehension of treatment procedures. Patients are obtained from the Forsyth Dental Infirmary for Children, while the cleft palate clinic of the Children's Hospital Medical Center collaborates in the teaching efforts. The over-all objective of the course is to develop sound judgment as a basis for diagnosis and care of children in clinical practice.

Pediatric Dentistry. Third and fourth years. Associate Professor Losch; Drs. Budde, C. G. Cohen, Hoover, Petersen, Schusterman, Sweeney, Watton and Yen.

Lectures and demonstrations introduce the subject in the third year with emphasis on the physical and psychological development of the child. During the pedodontic clinic, the student practices routine dental care for children. Treatment planning and an understanding of dental development are stressed.

The fourth year student continues to practice in the pedodontic clinic. Lectures and clinic procedures now stress the preventive aspects in children's dentistry, especially patient and parent education in oral hygiene and personal caries control as well as space maintenance, correction of oral habits, and tooth guidance.

In addition, the senior student visits the Dental Department of the Children's Hospital Medical Center where he is exposed to the management of the unusual cases best seen in a hospital atmosphere, as well as observing dental rehabilitation procedures performed by the hospital dental staff in the main operating rooms. Special emphasis is given those patients whose systemic disease includes oral manifestations.

Periodontics. Third and fourth years. Professor Goldhaber; Drs. Epstein, Nalbandian, Stern, Fasciano, Kalis, Miller, Stone, and Stolman.

The student is taught to recognize and diagnose periodontal disease and to comprehend its pathogenesis. He is expected to understand the role of local etiological factors as well as the part played by

systemic disease in modifying tissue response to local irritations.

With regard to therapy, emphasis is placed on the elimination of local factors and the institution of preventive procedures. In addition, he is taught the principles of occlusal equilibration and splinting of loose teeth. All students are required to perform periodontal surgery.

Prosthetic Dentistry. Third and fourth years. Assistant Clinical Professor Farrell; Drs. Ehrlich, Atwood, Fishman, Gold, Goldin, Getz, Kushnir, Coy, Sozio, Samaha, Genua, Kapur, Carpenter, and DeRoche.

Prosthetic dentistry which includes complete, fixed and removable prosthesis is taught in the third and fourth years. Through lectures, conferences and demonstrations the student receives clinical and laboratory instruction in the anatomy and physiology of the mouth as it applies to prosthetic dentistry, and in the materials and techniques of prosthetic restoration directed toward oral health, function and aesthetics. Every effort is made to provide early clinic contacts and to teach techniques on clinic cases. The high teacher-student ratio, small classes and special physical facilities favor this type of instruction.

Research Project. Third and fourth years. Assistant Professor Wells and Others.

In order to gain a more realistic appreciation of the nature of scientific research, all students of the Harvard School of Dental Medicine, as a requirement for graduation, participate in a laboratory or clinical investigation of their own choosing. By the end of the first semester of the third year, the student has chosen a research supervisor from the faculty and the subject to be investigated. He presents a plan for his research project in the form of a seminar at the beginning of the second semester. During the rest of the third year, and in some cases during the summer months, he attempts to master the techniques necessary for his work. During the fourth year, with the advice and aid of the faculty research supervisor, the project is carried forward, and at the end of the year, the student presents a seminar summarizing his results. Both the third and fourth year seminars are also required in written form for permanent reference in the Library.

Roentgenology. Third and fourth years. Associate Clinical Professor Glass and Dr. DeWilde.

Principles of applied roentgenology and the interpretation of radiographs, with consideration of the electro-physical basis of roentgenology, are covered in the third year. Practice in radiological technique and interpretation is given in both years.

Surgical Anatomy of the Head and Neck. Fourth year elective offered to selected students for two full weeks in February. Clinical Professor Guralnick and Dr. Edwards from the Medical School.

The course is designed primarily to enable the student through his own dissections to gain knowledge of the anatomy of operative oral surgery.

The first week is spent in doing eight regional dissections. The second week is devoted to performing specific surgical procedures with emphasis on anatomical dissection. The laboratory exercises are supplemented by lectures and by the use of motion pictures.

Eligibility for admission is determined by the Fourth Year Promotion Board to whom application should be made by letter prior to December first of the senior year.

Division of Hours

for the Third and Fourth Years

	Third Year	*Fourth Year*
Dental Anatomy	42	
Fundamentals of Occlusion	15	
Nutrition	16	
Oral Histopathology	64	
Dental Medicine	40	40
Ecological Dentistry	33	46
Operative Dentistry and Endodontics	420	379
Oral Surgery	50	42
Orthodontics	144	130
Pediatric Dentistry	60	70
Periodontics	113	110
Prosthetic Dentistry	482	583
Research Project Seminars	16	16
Roentgenology	18	20
Clinical Pharmacology		25
Surgical Anatomy of the Head and Neck		59
Emergency Service	9	27

DEGREES CONFERRED

On June 15, 1967 Seventeen Degrees were Conferred as Follows:

D.M.D.

Steven Eric Anapolle.
Charles Seiler Bailes, a.b. (*Susquehanna Univ.*) 1956.
Stuart James Balaban, s.b. (*New York Univ.*) 1963.
Arthur Charles Elias.
Norman Leon Goldberg, a.b. (*Brandeis Univ.*) 1963.
Stephen Sidney Hilzenrath, a.b. (*Brandeis Univ.*) 1963.
Richard David Hirschman, a.b. (*Brooklyn Coll.*) 1963.
Edward Robert Mopsik, s.b. (*Queens Coll.*) 1963.
Hezekiah Adeyemi Mosadomi, s.b. (*Mt. Union Coll.*) 1962.
Joseph Shaile Perkell, s.b. (*Massachusetts Inst. of Technology*) 1962.
Michael Edward Rowan, a.b. 1963.
David Lewis Sande.
Clifford Craig Scharke, a.b. (*New York Univ.*) 1963.
Sven Arnold Rune Söremark, b.a. (*Vasteräs Coll.*) 1948.

D.M.D. cum laude

Robert Bruce Donoff, s.b. (*Brooklyn Coll.*) 1963.

D.M.D. magna cum laude

Douglas Shelton Dick, a.b. (*Yale Univ.*) 1963.
Philip Val Knoettner, a.b. (*Dartmouth Coll.*) 1963.

SCHOOL OF DENTAL MEDICINE STUDENTS

Fourth Year Class (1968)

Cashion, Paul David, A.B. (*Coll. of the Holy Cross*) 1964. *Roslindale*
§Dinnerman, Peter Michael (*Univ. of New Hampshire*) *Portsmouth, N. H.*
‡Frank, Robert Allen (*Queens Coll. of The City Univ. of New York*) *Flushing, N. Y.*
‡Goff, Paul Henry (*Fairleigh Dickinson Univ.*) *Plainview, N. Y.*
‡Goldstein, Gary Stephen (*Univ. of Connecticut*) *Norwalk, Conn.*
‡Roser, Steven Malcolm (*Middlebury Coll.*) *West Newton*
Seldin, Edward Bert, S.B. (*Tufts Univ.*) 1964. *New York, N. Y.*
Shaver, Richard Odell, A.B. (*Univ. of Colorado*) 1956. [Univ. of Colorado School of Medicine]. *Denver, Colo.*
Super, Stuart, A.B. (*New York Univ.*) 1963. *Brooklyn, N.Y.*
‡Trauring, Charles Maurice (*Columbia Univ.*) *New York, N. Y.*
§Walling, Marlin Worth (*Sacramento State Coll.*) *Sacramento, Calif.*

Third Year Class (1969)

‡Baer, Warren Sheldon (*Boston Univ.*) *Woburn*
‡Bauer, Reginald Alexander (*Univ. of California at Los Angeles*) *Los Angeles, Calif.*
‡Breyan, David Edward (*Boston Univ.*) *West Roxbury*
Evans, Bruce Eugene, A.B. (*Williams Coll.*) 1965. *Portland, Maine*
Foord, William Dennis, S.B. (*Wesleyan Univ.*) 1965. *Garden City, N.Y.*
Haddad, Raymond David, A.B. (*Univ. of New Hampshire*) 1965. *Methuen*
Hymoff, Richard Steven, A.B. (*Brandeis Univ.*) 1965. *Brookline*
‡Kaban, Leonard Bruce, A.B. (*Queens Coll. of The City Univ. of New York*) 1966. *Flushing, N.Y.*

‡ Admitted on basis of three years' college work.
§ Admitted on basis of four years' college work.
N.B. Where the college name is omitted, the college is Harvard; where the state is omitted, the state is Massachusetts.

Kallio, Donald Michael, A.B. (*Coll. of the Holy Cross*) 1965. *Worcester*
‡Leaf, Robert Jay (*Cornell Univ.*) *Harrison, N.Y.*
Piecuch, Joseph Francis, A.B. (*Univ. of Massachusetts*) 1965. *Indian Orchard*
‡Rothman, Kenneth Jay, A.B. (*Colgate Univ.*) 1966. *Long Beach, N.Y.*
Shay, Norbert James, Jr., S.B. (*Siena Coll.*) 1965. *Menands, N.Y.*
Weiner, Allen Lewis, A.B. (*Yeshiva Univ.*) 1965. *Winthrop*

Second Year Class (1970)

Abbatiello, Vincent Jerome, A.B. (*Cornell Univ.*) 1966. *Westbury, N.Y.*
Colchamiro, Stephen A., S.B. (*Brooklyn Coll.*) 1966. *Brooklyn, N.Y.*
Commette, James Albert, S.B. (*Coll. of the Holy Cross*) 1966. *Beverly*
Coppe, Michael Richard, A.B. (*Fordham Coll.*) 1966. *New Britain, Conn.*
Costello, John Patrick, S.B. (*Fairfield Univ.*) 1966. *Maspeth, N.Y.*
Diehl, Kenneth Robert, A.B. (*Cornell Univ.*) 1966. *Harrisburg, Pa.*
Frankel, Jerold Martin, A.B. (*Amherst Coll.*) 1966. *Atlanta, Ga.*
Krohn, Melvyn Richard, S.B. (*Brooklyn Coll.*) 1966. *Brooklyn, N.Y.*
Liebow, Charles, A.B. (*New York Univ.*) 1966. *Brooklyn, N.Y.*
Thornton Malcolm Edward, S.B. (*Fairleigh Dickinson Univ.*) 1966. *Glastonbury, Conn.*

First Year Class (1971)

Albert, Thomas William, S.B. (*Univ. of Massachusetts*) 1967. *Beverly*
Baumer, Alex John, S.B. (*Tufts Coll.*) 1967. *Auburn, Maine*
Brackman, Joseph Lawrence, A.B. 1961. *Newton Centre*
Bunch, William Maurice, S.B. (*Univ. of Arizona*) 1967. *Superior, Ariz.*
Burnett, Paul Robert (*Univ. of New Hampshire*) *Wakefield*
Feldbau, Elliot Victor, A.B. (*Clark Univ.*) 1967. *Swampscott*
Gallagher, Frank Edward, A.B. (*Princeton Univ.*) 1967. *Worcester*
Indresano, Albert Thomas, A.B. (*Boston Univ.*) 1967. *Melrose*
Jacobs, Jonathan S. (*Univ. of Rochester*) *Long Beach, N.Y.*
Kelly, John Patrick Washington, A.B. (*Boston Coll.*) 1964. *Milton*

Lipnicki, John Joseph, S.B. (*St. Peter's Coll.*) 1967. *Bayonne, N.J.*
Posteraro, Anthony Francis, S.B. (*Fordham Coll.*) 1967. *Larchmont, N.Y.*
Reisman, Richard Jay, A.B. (*Univ. of Massachusetts*) 1967. *Newton Centre*
Schwartz, Harry Colin, S.B. (*Brooklyn Coll.*) 1967. *Brooklyn, N.Y.*
Siatkowski, Raymond Edward, B.E.E. (*Cornell Univ.*) 1964. *Shillington, Pa.*
Thomas, Robert John (*Boston Coll.*) *Ossining, N.Y.*

DENTAL SCHOOL SUMMARY 1967–1968

Fourth Year	11
Third Year	14
Second Year	10
First Year	16
Total	51

Colleges Represented

Amherst College	1
Arizona, University of	1
Boston College	2
Boston University	3
Brandeis University	1
Brooklyn College of The City University of New York	3
California, University of, at Los Angeles	1
Clark University	1
Colgate University	1
Colorado, University of	1
Columbia University	1
Connecticut, University of	1
Cornell University	4
Fairfield University	1
Fairleigh Dickinson University	2
Fordham College	2
Harvard University	1
Holy Cross, College of the	3
Massachusetts, University of	3
Middlebury College	1
New Hampshire, University of	3
New York University	2
Princeton University	1
Queens College of The City University of New York	2
Rochester, University of	1
Sacramento State College	1
Saint Peter's College	1
Siena College	1
Tufts University	2
Wesleyan University	1
Williams College	1
Yeshiva University	1
Total number of students	51

Number of colleges represented	34
Number of college graduates	37
Number of non-graduates	14

Medical Schools Represented by Students Who Entered Harvard School of Dental Medicine with Advanced Standing

Colorado, University of, School of Medicine	1

PROFESSORS EMERITI

Fuller Albright, M.D.	Professor of Medicine
Joseph C. Aub, M.D.	Professor of Research Medicine
Theodore L. Badger, M.D.	Clinical Professor of Medicine
George P. Berry, M.D.	Professor of Bacteriology
Grete L. Bibring, M.D.	Clinical Professor of Psychiatry
Edward F. Bland, M.D.	Clinical Professor of Medicine
Herrman L. Blumgart, M.D.	Professor of Medicine
C. Sidney Burwell, M.D.	Samuel A. Levine Professor of Medicine (died September 3, 1967)
Allan M. Butler, M.D.	Professor of Pediatrics
Randolph K. Byers, M.D.	Associate Clinical Professor of Pediatrics
Edward D. Churchill, M.D.	John Homans Professor of Surgery
Stewart H. Clifford, M.D.	Associate Clinical Professor of Pediatrics
Stanley Cobb, M.D.	Bullard Professor of Neuropathology
Edwin B. Dunphy, M.D.	Henry Willard Williams Professor of Ophthalmology at the Massachusetts Eye and Ear Infirmary
John F. Enders, Ph.D.	University Professor
Jacob Fine, M.D.	Professor of Surgery
Cyrus H. Fiske, M.D.	Professor of Biological Chemistry
Felix G. Fleischner, M.D.	Clinical Professor of Radiology
Chester N. Frazier, M.D.	Edward Wigglesworth Professor of Dermatology
A. Baird Hastings, Ph.D.	Hamilton Kuhn Professor of Biological Chemistry
Parker Heath, M.D.	Clinical Professor of Ophthalmology
Ives Hendrick, M.D.	Clinical Professor of Psychiatry
Chester M. Jones, M.D.	Clinical Professor of Medicine
Varaztad H. Kazanjian, M.D.	Professor of Plastic Surgery
Otto Krayer, M.D.	Gustavus Adolphus Pfeiffer Professor of Pharmacology

Eugene M. Landis, M.D.	George Higginson Professor of Physiology
Erich Lindemann, M.D.	Professor of Psychiatry
Charles C. Lund, M.D.	Clinical Professor of Surgery
Leland S. McKittrick, M.D.	Clinical Professor of Surgery
J. Howard Means, M.D.	Jackson Professor of Clinical Medicine (died September 3, 1967)
Langdon Parsons, M.D.	Clinical Professor of Gynecology
John C. Rock, M.D.	Clinical Professor of Gynecology
LeRoy A. Schall, M.D.	Walter Augustus Lecompte Professor of Otology and Professor of Laryngology
George C. Shattuck, M.D.	Clinical Professor of Tropical Medicine
George Van S. Smith, M.D.	W. H. Baker Professor of Gynecology (from September 1, 1967)
Richard M. Smith, M.D.	Thomas Morgan Rotch Professor of Pediatrics
Franklin F. Snyder, M.D.	Associate Professor of Anatomy and Obstetrics
Harry C. Solomon, M.D.	Professor of Psychiatry
Benjamin Tenney, M.D.	Clinical Professor of Obstetrics and Gynecology
Kurt H. Thoma, D.M.D.	Professor of Oral Surgery and Charles A. Brackett Professor of Oral Pathology
Frederick H. Verhoeff, M.D.	Professor of Ophthalmic Research
Shields Warren, M.D.	Professor of Pathology at the New England Deaconess Hospital
James C. White, M.D.	Professor of Surgery at the Massachusetts General Hospital
Louis Wolff, M.D.	Clinical Professor of Medicine
Paul I. Yakovlev, M.D.	Clinical Professor of Neuropathology

OFFICERS OF ADMINISTRATION AND INSTRUCTION

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